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CHASSIS PLATFORMS

EMBEDDED COMPUTING PRODUCTS

INTEGRATION SERVICES

SYSTEM ACCESSORIES

BACKPLANES

COMPONENTS

PICMG: Products and Services

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Elma Electronic

WHO IS ELMA ELECTRONIC

Founded in 1962, Elma is a leading global manufacturer and supplier of products used in integrated embedded platforms for military/aerospace, communications, medical imaging, and industrial applications. Based in Fremont, California and Wetzikon, Switzerland, the company has facilities and representatives in over 24 countries. Elma has a broad base of customers in diverse industries such as military and defense, telecommunications, industrial control, and medical electronics.

The Elma group of companies' products and services range from electromechanical components, to boards, to complete standard or custom system platforms. Elma constantly strives to provide products designed to be superior in quality, reliability, performance, and innovation. The focus is to leverage proven technology based on VITA (VME, VPX, and VXS), PICMG standard architectures (CPCI, ATCA and MicroTCA) and rugged COTS based solutions.

The company offers fast, flexible response to customer needs and extensive practical knowledge in tailoring solutions to specific applications. The combined Elma Team has the knowledge and resources critical to address the increasing complexity and interplay between backplane, packaging, board level and software aspects of a successfully integrated System Solution. The addition of the ACT/Technico brand of products and services strengthens Elma's position as a vertically integrated supplier for Embedded Computing customers, while the Bustronic division provides unsurpassed high end backplane design expertise.

Elma's product line encompasses well over 16,000 parts, including system packaging and boards, enclosures, backplanes, cabinets, and other electro-mechanical components. Elma's quality level is reached through training of all employees and following of systematic procedures per ISO 9001 standards, to which Elma has been certified.

WHY CHOOSE ELMA

Flexibility | Elma tailors solutions to individual applications to ensure fast and cost-effective results.

Experience | Extensive practical experience in packaging electronic systems is used to minimize the time taken to develop new customized solutions without compromising system performance or reliability.

Compatibility | Because the two key electromechanical components - enclosures and backplanes - are made in-house, Elma guarantees compatibility, consistency and reliability.

Global Resources | With manufacturing in Europe, Asia and the USA, customers benefit from local service backed by global resources.

ELMA PRODUCT DIVISIONS

Systems



Embedded Computing Products



Backplanes



Enclosures & Components



Cabinets



Switches, Knobs & LEDs



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HOW ELMA DOES IT - CORE CAPABILITIES

The company supplies a first class offering of products for standard and rugged COTS electronics packaging and sub-systems integration: boards, chassis, backplanes, mechanical components, cabinets, and LED/switches for a wide variety of applications worldwide. The ACT/Technico branded products and services enable Elma to be a leading supplier of integrated embedded boards and sub-systems built on open standards platforms, including Single Board Computers, mass storage and RAID products, I/O and networking solutions, RTOS, Linux or Windows, and device drivers.

System architecture, hardware, and software design services are offered to quickly deliver complete solutions and expedite time to market. We take true COTS products, such as single board computers and PMCs, then enhance and qualify them to meet your rugged requirements.

This extensive range of products and services gives Elma Electronic Inc. a unique ability to complete entire projects from initial system architecture through specification, design, manufacturing and test.

Elma has a professional sales team committed to the value added sale. Our sales staff and application engineers are able to match requirements to the application and recommend semi or full custom solutions when appropriate. Our staff of experienced electrical, software, mechanical and system engineers combine to provide state of the art solutions designed to meet our customers' specifications. We support those products long after shipment with warranty coverage and complete documentation packages.

In house manufacturing capability rounds out our ability to integrate the products and designs into a complete, shippable solution. Our Quality department rigorously maintains our corporate commitment to ship products that are built with quality workmanship.

Elma is capable of quickly turning projects from initial system architecture through to specification, design, manufacturing and test. We also work with you to manage the entire project including EOL issues, spares inventory and lifecycle management.

TECHNICAL CAPABILITIES

- Standard and rugged COTS integration and test expertise
- System platform architecture design and development
- Hardware and software selection
- Chassis platform design and selection
- Embedded and COTS system integration
- High performance cable assemblies
- Manufacturing
- Run rates from 10's to low 1000's
- Project management
- Full support for the project, single point of contact
- Software installation
- Bootable device drivers included as needed
- Device driver development
- Functionally tested in hardware matching target system
- Testing
- Factory test software
- System level/payload testing
  SBCs, I/O, storage, operating system
- Unit level environmental testing
  ESS, NEBS, MIL-STDs 167, 810, 901D
- Regulatory compliance testing CE, UL, FCC

CUSTOM SOLUTIONS

Customization is the standard at Elma Electronic. With an extensive offering of modular products as a foundation, Elma is able to leverage existing solutions and proven design concepts to meet any custom application. This approach ensures that Elma will provide a quality, compliant solution with significantly reduced lead time, cost and risk. Elma leads the industry in modifying standard PICMG based backplanes and chassis to meet customers' exact needs.

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PICMG History and Overview

CompactPCI (cPCI) was formed in the late 1990's to offer a ruggedized, Eurocard-based form factor around PCI. The specification is based on the 2mm connector standard and the IEEE 1101.10/11 mechanicals. PCIbus was a proven bus with an enormous installed base in different market segments like telecom, industrial automation, etc. The CompactPCI architecture could also leverage off the lower cost, widely available PCI silicon and the omnipresent WinTel (Windows/ Intel) architecture. A 64-bit implementation could boast a data transfer rate of 533Mbytes/sec. Like the way VITA promoted VME successfully, cPCI was effectively promoted by a group of PCI manufacturers under PICMG. PICMG released a series of specifications in the late nineties that addressed critical requirements in the Telecommunications industry like Hot swap and five nines availability (99.999). PICMG 2.1 (Hotswap), PICMG 2.5 (H110 Telephony bus), PICMG 2.7 (Dual system slot) and PICMG 2.9 (System management bus) were some of the specifications that made using cPCI bus a compelling reason for new products catering to computer telephony, VoIP and a myriad other applications.

With a soaring demand for more speed and bandwidth fueled by the Internet boom, cPCI became extremely popular with its open standard that helped speed the "time to market" for new entrants in the telecom arena. The Eurocard form factors of 6U by 160mm for front line cards and 6U x 80mm for rear transition cards was tailor made for platform providers to develop rackmount equipment that met the NEBS criteria for 300mm depth as well as cable management – important considerations for Central Office applications.

Eventually, the slot limitations of CompactPCI and the bottlenecks to higher data transfer rates (a must for I/O intensive applications) posed by bus based architecture prompted the foray into high speed serial buses and Switched Fabric architectures. Specifications like the PICMG 2.16 for packet switching backplanes (cPSB) and PICMG 2.17 (aka Star Fabric) employed a fabric for the dataplane and a traditional bus like cPCI for the control plane. The use of a reliable bus like cPCI mitigated the risks associated with fabrics while leveraging their higher performance levels for high-end applications. Switch-fabric interconnection is also preferable for high availability applications due to their self- healing features.

In late 2001, PICMG formed a committee to develop a new series of specifications aimed at the next generation of Telecom requirements. The 3.X series was renamed as Advanced Telecom Computing Architecture (or ATCA) and an 8U Eurocard was chosen as the form factor of choice. The specification is geared towards the telco carrier grade market. Utilizing Dual Star, Dual Dual Star, and Mesh switched fabric topologies, the spec will be able to handle the massive bandwidth requirements, High Availability (99.999% uptime), and Quality of Service issues demanded by the industry. The form factor uses an 8U x 280mm card size plugging into a backplane spaced at 1.2". The larger cards allow more space for more components, while the wider spacing between slots allows for taller components. In addition, the backplane allows for 48VDC input from an external source to be distributed to the individual slot cards. The slot-to-slot bandwidth is approximately 7500 Mbytes/sec (assuming 2.5 Gbps per pair)

In 2006, the MicroTCA.0 committee was formed to develop a smaller and lower cost "ATCA-Lite" alternative. As ATCA provides a carrier platform for AMCs (Advanced Mezzanine Cards), the thought was to have these AMCs plug directly into a backplane instead. The MicroTCA system allows single or redundant virtual carriers (MCHs) to provide power management, platform management and fabric connections to greater numbers of modules than a single physical carrier card could support in a classic ATCA application. MicroTCA systems have options for single or double modules and full, mid, or compact sizes. AdvancedMC modules are targeted for such modular applications as storage arrays, firewalls, blade servers, and more. Each module may dissipate between 20 and 60W each and the platform management scheme is designed to support applications from 99.99% to 99.999% availability. The slot-to-slot bandwidth is approximately 5000 Mbytes/sec (assuming 2.5 Gbps per pair).

PICMG STANDARDS

PICMG 2.0 R3.0 - CompactPCI
PICMG 2.1 R2.0 - CompactPCI Hot Swap
PICMG 2.2 - VME64x Bus Pin Assignments on CompactPCI
PICMG 2.3 - PMC I/O Pin Assignments on CompactPCI
PICMG 2.4 - IP I/O Pin Assignments on CompactPCI
PICMG 2.5 - CompactPCI Computer Telephony Specification
PICMG 2.7 - Dual CompactPCI Backplanes
PICMG 2.9 - Secondary System Management Bus for CompactPCI
PICMG 2.11 - Power Interface
PICMG 2.12 R1.0 - CompactPCI Software Interoperability
PICMG 2.12 R2.0 - IP I/O Pin Assignments on CompactPCI
PICMG 2.14 - CompactPCI Multicomputing
PICMG 2.15 - PCI Telecom Mezzanine Card Specification (PTMC)
PICMG 2.15 - Revision 1.0 ECN 001
PICMG 2.16 - IP Backplane for CompactPCI
PICMG 2.17 - Switched PCI-PCI Bridging for CompactPCI
PICMG 2.20 - Serial Mesh Interconnect
PICMG 3.0 - Advanced Telecom Computing Architecture (ATCA)
MicroTCA.0 - MicroTCA

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Elma Chassis Platform Overview: CompactPCI

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Type 11C Modular Rackmount Chassis

- High quality, cost effective platform
- Designed to IEEE 1101.10/.11 standards
- Advanced EMC shielding protection
- Wide range of options
- Can be configured by selecting the backplane, power supply, device modules and number of slots
- Engineered for superior cooling: front to rear or bottom to top airflow
- Standard heights are 3U-9U; custom sizes possible
- Accepts 3U or 6U cards mounted vertically or horizontally
- Systems can be configured with or without rear I/O card cage

Type 15C Rackmount or Desktop Chassis

Double-walled construction, rounded edges, and a powder-coated aluminum finish make the Type 15 the "Premium" Elma chassis.- Elegant and versatile platform for packaging desktop or rackmount applications

- Designed to IEEE 1101.10/.11 standards
- Advanced EMC shielding protection
- Wide range of options
- Modular packaging approach allows the system to be configured by selecting the backplane, power supply, device modules and the number of slots
- Engineered for superior cooling: front to rear or bottom to top airflow
- Standard heights are 4U, 9U and 10U; custom sizes possible
- Accepts 3U or 6U cards mounted vertically or horizontally
- Systems can be configured with or without rear I/O card cage
- Tilt feet and handles are standard on most models

Type 32C Portable Tower Chassis

This lightweight, tower platform consists of a chassis covered with vinyl clad aluminum covers for a scratch resistant, attractive finish.- Designed to IEEE 1101.10/.11 standards

- Advanced EMC shielding protection
- Wide range of options
- Modular packaging approach allows the system to be configured by selecting the backplane, power supply, device modules and the number of slots
- Engineered for superior cooling with front to rear airflow
- Standard heights are 63HP and 84HP (HP=.2")
- Standard widths are 4U and 6U
- Accepts 6U cards mounted vertically
- Systems can be configured with or without rear I/O card cage
- Standard features include feet and carrying handle

Type 39C Rackmount or Desktop Chassis

This black powder coated platform is a advanced generation of CompactPCI enclosures. This family of chassis showcases an optimal design that addresses EMC, cooling, and ease of manufacturing, in a highly attractive, cost effective package.- Designed to IEEE 1101.10/.11 standards

- Rackmount and desktop versions
- Horizontal mounting for 6U x 160mm cPCI cards from the front; 6U x 80mm rear I/O cards
- Designed to hold a wide variety of storage devices depending on configuration
- Thermal engineering guarantees superior cooling with front-to-rear or side-to-side airflow, considering card, device and power supply requirements
- Standard 2, 3, 4, 5, 6 and 8 slot backplanes can be mounted
- Choice of fixed or plug-in power supplies is standard
- Chassis meet the strict requirements of CE, FCC Class A and NEBS

12R2 Chassis

This high quality and cost-efficient COTS rugged package is designed to meet rigorous military standards.

- 5U, 8U, 9U, 12U and 14U heights
- EMI/RFI integrity via braided gasketing and honeycomb filters
- Tested for shock, vibration, and structural integrity
- 350 - 1400 watt power supplies
- Wide range of backplane options: 2 to 20 slots
- Standard voltage and system monitoring LEDs
- Shock-isolation optional
- MIL-STD-5400, MIL-STD-810F, MIL-STD-46IE, MIL-STD-704E
- MIL-STD-1275A, MIL-STD-167, MIL-STD-901D

12R1 Chassis

This chassis is designed, manufactured and tested to meet the demands of military, aerospace and defense markets. It is ideal for airborne applications where weight is premium.- 3U, 7U, and 10U heights in horizontal and vertical orientations

- 20-25% less weight than comparable rugged chassis
- Tested for shock, vibration, and structural integrity
- Complete EMI/RFI integrity
- 350-1400 Watt power supplies
- Wide range of backplane options 2-20 slots
- Meets MIL-S-167, MIL-S-810F, MIL-S-461D and MIL-S-901D standards
- Withstands 15 Gs (shock and vibration resistance)

Convection Cooled ATR

The modular design concept of this ATR box allows for wide range customized options without the cost and lead-time penalties associated with traditional construction techniques.

- COTS, convection cooled 1/2, 3/4, 1, or 1 1/2 ATR per ARINC 404A
- IEEE 1101.10 Compliant
- Full range of isolated military power supplies from 150 to 750 watts
- Modular design allows for customization with minimum cost/lead time
- Capacity for 5, 7, 12 or 15 slots 6U x 160mm
- Advanced airflow distribution through card cage

Conduction Cooled ATR

This ATR box has a machined card cage that accommodates wedge locks to transfer the heat. It has been optimized for cooling via thermal simulation studies. Its modular design allows for a wide range of options.

- Meets ARINC 404A and IEEE 1101.2 specifications
- Operating temperature operating range of -40°C to +70°C
- Low weight, ideal for Avionics applications
- Optimized for cooling via thermal simulation studies
- Power supply and line filter combination
- Rugged aluminum dip-braised construction

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CompactPCI Order Key

[11C, 15C, 15H, 32C, 39C]

NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot
03 = 3 slot
05 = 5 slot
04 = 4 slot
06 = 6 slot
08 = 8 slot
16 = 16 slot
DD = 4+4
FF = 6+6
HH = 8+8

BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
J = 2.17, 1 x FS (no H.110)
L = C EX (1 SS, 1 x type, 2 x type2)
M = 9U horiz. Rev 2.0
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
S = PXI
X = No BP installed
Z = Custom

BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
J = ZD (High Speed)
K = HM + ZD + power conn
X = No connectors
Z = Custom

DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
5 = 4 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
8 = 2 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
C = 1 x 2.5"
X = Not Installed

HEIGHT
1 =1U
2 = 2U
3 = 3U
4 = 4U
6 = 6U
7 =- 7U
9 = 9U
A = 10U
C = 12U

WIDTH
3 = 32 T
6 = 63 T
8 = 84 T

REAR I/O
N = No
Y = Yes

DEPTH
2 = 200 - 299mm
3 = 300 - 399mm
4 = 400 - 499mm

CARD ORIENTATION
V = Vertical
H = Horizontal

PSU INPUT
A = 110/220VAC (Plug-in)
C = 90 - 230VAC (Fixed)
D = 90 - 230VAC (2xQC, N+1)
E = 110/220VAC (2 x HS, N + 1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
J = 24VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
4 = 400 - 499 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
6 = 600 - 699 watts (w/o 3.3V)
7 = 700 - 799 watts (w/o 3.3V)
8 = 800 - 899 watts (w/o 3.3V)
9 = 900 - 999 watts (w/o 3.3V)
A = 100 - 199 watts (w 3.3V)
B = 200 - 299 watts (w 3.3V)
C = 300 - 399 watts (w 3.3V)
D = 400 - 499 watts (w 3.3V)
E = 500 - 599 watts (w 3.3V)
F = 600 - 699 watts (w 3.3V)
G = 700 - 799 watts (w 3.3V)
H = 800 - 899 watts (w 3.3V)
I = 900 - 999 watts (w 3.3V)
J = 1000 - 1099 watts (w 3.3V)
K = 1100 - 1199 watts (w 3.3V)
L = 1200 - 1299 watts (w 3.3V)
M = 1300 - 1399 watts (w 3.3V)
N = 1400 - 1499 watts (w 3.3V)
O = 1500 - 1599 watts {w 3.3V)
X = Not Installed

VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

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Type 11C Rackmountable Chassis System Overview

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DESCRIPTION

Elma Type 11C family of enclosures provide a high quality, cost effective platform for packaging rackmount CompactPCI (2.0, 2.16, 2.17, 2.20, EXP.0) applications. Designed to IEEE 1101.10/.11 standards, Type 11C enclosures give advanced EMC shielding protection and are available with a wide range of options. Based on a modular packaging approach, the system can be configured by selecting the backplane, PSU, device modules and the number of slots. Engineered for superior cooling the Type 11C is available with either front to rear or bottom to top airflow. Standard heights are 3U-9U with custom sizes possible. The Type 11C will accept 3U or 6U cards mounted vertically or horizontally. Systems can be configured with or without rear I/O card cage.



TECHNICAL FEATURES:

- Dimensions according to IEEE 1101.10/.11
- 160mm/80mm card guides with keying and ESD clip
- Advanced EMC shielding without gaskets, standard
- Rapid assembly
- Easy access for maintenance
- Sheet steel, pre-galvanized enclosure
- Aluminum extrusions, modules and panels
- Vibration resistant
- Designed to meet UL, CE, FCC and NEBS requirements



CONFIGURATION OPTIONS:

- Compatible with PICMG: 2.0, 2.16, 2.17, 2.20, EXP.0 (cPCI Express)
- H.110 Optional
- Mounting for 3U or 6U cPCI cards
- Vertical or horizontal card mounting
- Available heights 3U to 9U
- Rear I/O
- Standard 4, 6 and 8 slot backplanes
- Wide range of EMC shield peripheral modules
- Wide range of PSU options: fix mount, plug in, N+1
- 90-240VAC or 48VDC input
- Shelf Management: PICMG 2.9, IPMI



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TYPE 11C

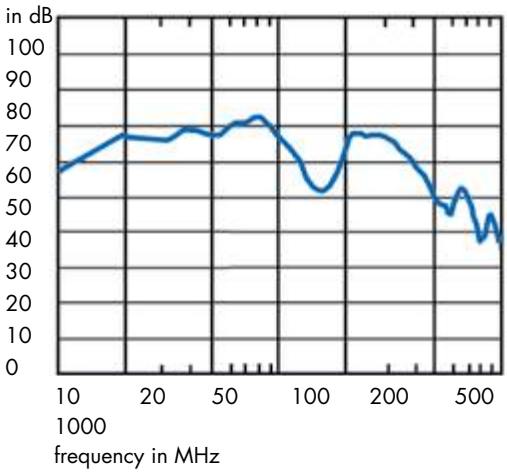
Front extrusions meet IEEE 1101.10 and CompactPCI Standard, specially designed for plug-in units with high insert/extract forces. The standard snap-fit and screw connections are suitable for demanding applications.







Typical attenuation for Type 11C



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Type 11C, 4U - 19" Rackmount
Vertical



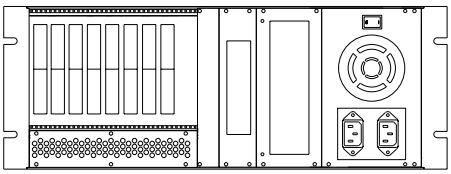
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 4U x 84HP x 290mm (H x W x D)
- Holds 3U CPCI, CPCI Express
- 3, 4, 6 or 8 slot
- PICMG: 2.0 or EXP.0 backplanes
- Cooling bottom to top
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

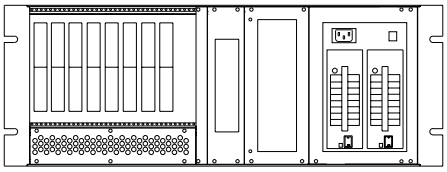
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting of pre-galvanized steel enclosures, high performance cPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



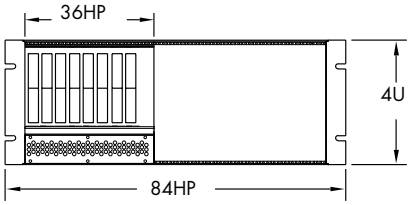
Description	Order Number
■ 4U H x 84HP W x 290mm D ■ 8 slot, 3U x 160mm, front ■ No rear I/O ■ 8 slot BP, (PICMG 2.0) ■ 1 x 5.25" HH and 1 x 3.5", devices ■ 1 x 90 CFM fans, bottom to top cooling ■ 1 x 300W PSU - ATX, Fixed	11C08BA948N2VC3X



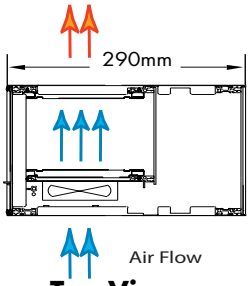
Description	Order Number
■ 4U H x 84HP W x 290mm D ■ 8 slot, 3U x 160mm, front ■ No rear I/O ■ 8 slot BP, (PICMG 2.0) ■ 1 x 5.25" HH and 1 x 3.5", devices ■ 1 x 90 CFM fans, bottom to top cooling ■ 2 x 250W PSUs - ATX, Plug removable, N+1	11C08BA948N2VE2X

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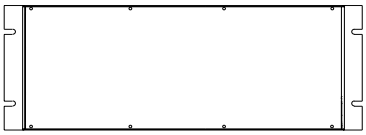
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

11C ❑ ❑ ❑ ❑ ❑ 4 8 ❑ 3 V ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
06 = 6 slot
08 = 8 slot

❑ BP BARE BOARD
B = 3U Rev. 2.0
D = 6U (LSS)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3,P4, P5
B = P1 S, P2 L; No P3,P4, P5
E = P1 S; P2, P3, P4, P5 L
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDR (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
4 = 4U

❑ WIDTH
8 = 84 T

❑ REAR I/O
N = No
Y = Yes

❑ DEPTH
2 = 200 - 299mm
3 = 300 - 399mm
4 = 400 - 499mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90-230VAC (Fixed)
E = 110/220VAC (2 x HS, N + 1)
G = 90-230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 11C, 4U - 19" Rackmount,
Horizontal



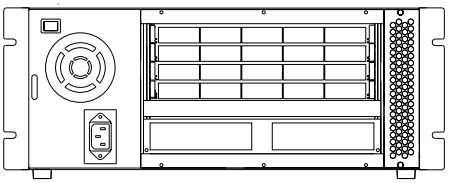
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 4U x 84HP x 290mm (H x W x D)
- Holds up to 6 slots, 6U cards
- PICMG: 2.0, 2.16, EXP.0 backplanes (H.110 optional)
- Cooling front to rear, plug removable
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IMPI (optional)
- Ready to run - turnkey solution

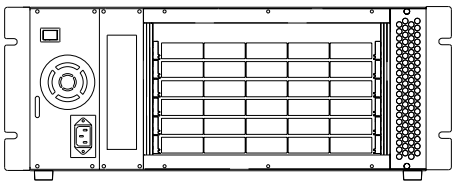
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting of pre-galvanized steel enclosures, high performance CPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



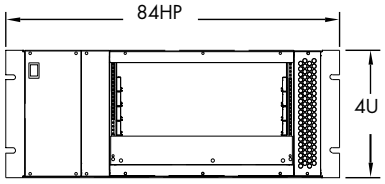
Description	Order Number
■ 4U H x 84HP W x 290mm D ■ 4 slot, 6U x 160mm, front ■ 4 slot, 6U x 80mm, rear I/O ■ 4 slot BP, (PICMG 2.0, no/H.110) ■ 2 x 3.5", devices ■ 1 x 90 CFM fan, front to rear cooling ■ 1 x 300W PSU - ATX, Fixed	11C04AD248Y2HC3X



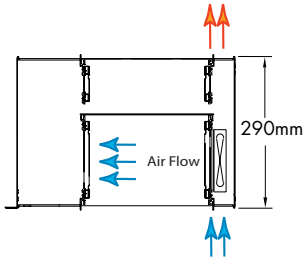
Description	Order Number
■ 4U H x 84HP W x 290mm D ■ 6 slot, 6U x 160mm, front ■ 6 slot, 6U x 80mm, rear I/O ■ 6 slot BP, (PICMG 2.0, w/H.110) ■ 1 x 3.5", devices ■ 1 x 90 CFM fans, front to rear cooling ■ 1 x 250W, PSU - Front, quick connect	11C06CI348Y2HC2X

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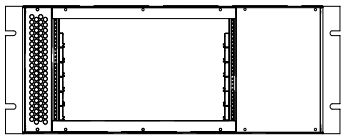
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

11C ❑ ❑ ❑ ❑ ❑ 4 8 ❑ 2 H ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
06 = 6 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION: P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
5 = 4 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
4 = 4U

❑ WIDTH
8 = 84 T

❑ REAR I/O
N = No
Y = Yes

❑ DEPTH
2 = 200 - 299mm

❑ CARD ORIENTATION
V = Vertical
H = Horizontal

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2 x HS, N + 1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 11C, 7U - 19" Wallmount, Panel Mount
Vertical



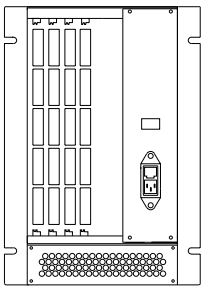
FEATURES:

- 19" wallmount or panel mount fully compliant to IEEE 1101.10/.11
- 7U x 32HP x 243mm (H x W x D)
- 3, 4 or 5 slots
- PICMG: 2.0, 2.16, EXP.0 backplanes (H.110 optional)
- Cooling front to top
- Advanced EMC shielding to meet CE, FCC and NEBS
- PSU inputs (90 - 264 VAC, 48VDC)
- PSU options: fix mount, plug in
- Shelf Management: PICMG 2.9, IMPI (optional)
- Ready to run - turnkey solution

SCOPE OF SUPPLY

High quality 19" wallmount or panel mount chassis platform consisting of pre-galvanized steel enclosures, high performance cPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

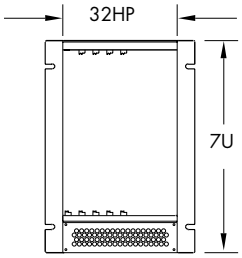
ORDERING INFORMATION



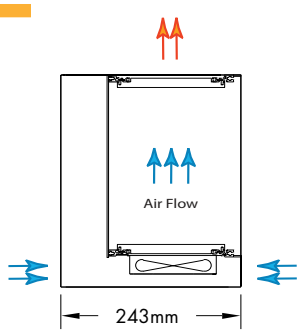
Description	Order Number
■ 7U H x 32HP W x 243mm D ■ 4 slot, 6U x 160mm, front ■ No rear I/O ■ 4 slot BP, (PICMG 2.0, no/H.110) ■ No device mounting ■ 1 x 90 CFM fan, front to top cooling ■ 1 x 250W PSU - 6U, quick connect	11C04ABX73N2VC2X

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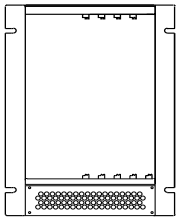
LINE DRAWINGS



Front View



Side View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

11C ❑❑❑❑❑ 7 3 N 2 V ❑❑❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
06 = 6 slot
16 = 16 slot
DD = 4+4
FF = 6+6
HH = 8+8
0X = No BP installed

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
J = 2.17, 1 x FS (no H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
5 = 4 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
7 = 7U

❑ WIDTH
3 = 32 T

❑ REAR I/O
N = No

❑ DEPTH
2 = 200 - 299mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2 x HS, N + 1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 11C, 7U - 19" Rackmount,
Vertical



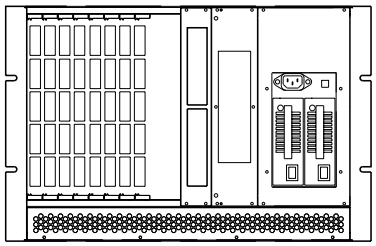
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 7U x 84HP x 290mm (H x W x D)
- 4, 6, 8 or 16-slot
- PICMG: 2.0, 2.16, EXP.0 backplanes (H.110 optional)
- Cooling bottom to top
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IMPI (optional)
- Ready to run - turnkey solution

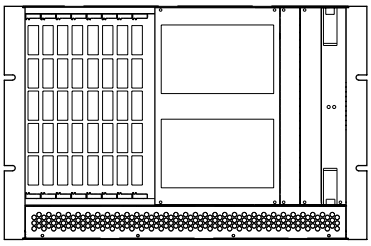
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting of pre-galvanized steel enclosures, high performance CPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



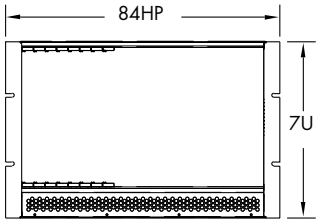
Description	Order Number
■ 7U H x 84HP W x 290mm D ■ 8 slot, 6U x 160mm, front ■ 8 slot, 6U x 80mm, rear I/O ■ 8 slot BP, (PICMG 2.16, 2 x FS, no/H,110) ■ 1 x 5.25" HH and 2 x 3.5", devices ■ 3 x 90 CFM fans, bottom to top cooling ■ 2 x 300W PSU - 6U, Plug removable, N+1	11C08FD678Y2VE3X



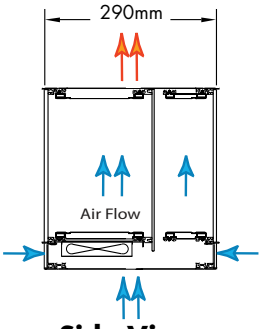
Description	Order Number
■ 7U H x 84HP W x 290mm D ■ 8 slot, 6U x 160mm, front ■ 8 slot, 6U x 80mm, rear I/O ■ 8 slot BP, (PICMG 2.0, w/H,110) ■ 4 x 5.25" HH devices ■ 3 x 90 CFM fans, bottom to top cooling ■ 1 x 350W PSU - 6U, Plug removable	11C08CC578Y2VG3X

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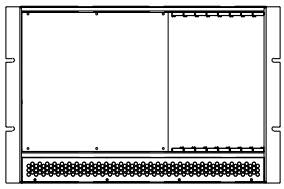
LINE DRAWINGS



Front View



Side View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

11C ❑ ❑ ❑ ❑ ❑ 7 8 ❑ 2 V ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
05 = 5 slo
06 = 6 slot
08 = 8 slot
16 = 16 slot
DD = 4+4
FF = 6+6
HH = 8+8

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
J = 2.17, 1 x FS (no H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
5 = 4 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
8 = 2 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
7 = 7U

❑ WIDTH
8 = 84 T

❑ REAR I/O
N = No
Y = Yes

❑ DEPTH
3 = 300 - 399mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2 x HS, N + 1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 11C, 9U - 19" Rackmount, Vertical

ELMA
Your Solution Partner



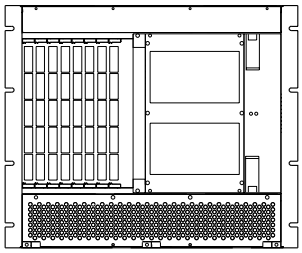
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 9U x 84HP x 290mm (H x W x D)
- 4, 6, 8 or 16-slot
- PICMG: 2.0, 2.16, EXP.0 backplanes (H.110 optional)
- Cooling front to rear
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IMPI (optional)
- Ready to run - turnkey solution

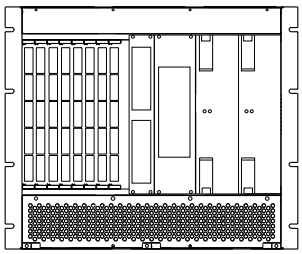
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting of pre-galvanized steel enclosures, high performance CPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



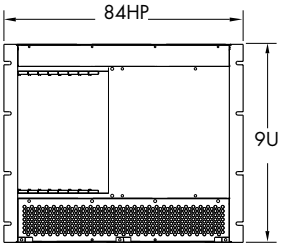
Description	Order Number
■ 9U H x 84HP W x 290mm D ■ 8 slot, 6U x 160mm, front ■ 8 slot, 6U x 80mm, rear I/O ■ 8 slot BP, (PICMG 2.0, no/H.110) ■ 4 x 5.25"HH, devices ■ 3 x 90 CFM fans, bottom to top cooling ■ 1 x 350W PSU - 6U, Plug removable	11C08AD598Y2VG3X



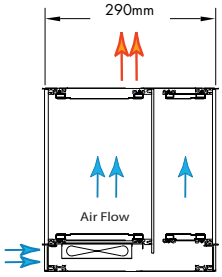
Description	Order Number
■ 9U H x 84HP W x 290mm D ■ 8 slot, 6U x 160mm, front ■ 8 slot, 6U x 80mm, rear I/O ■ 8 slot BP, (PICMG 2.16, 2 x FS, w/H.110 ■ 1 x 5.25"HH, 2 x 3.5" devices ■ 3 x 90 CFM fans, front to rear cooling ■ 2 x 350W PSU - 6U, Plug removable, N+1	11C08HC698Y2VP3X

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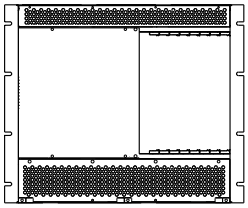
LINE DRAWINGS



Front View



Side View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

11C ❑ ❑ ❑ ❑ ❑ 9 8 Y 2 V ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
05 = 5 slot
06 = 6 slot
08 = 8 slot
16 = 16 slot
DD = 4+4
FF = 6+6
HH = 8+8

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
J = 2.17, 1 x FS (no H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
5 = 4 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
8 = 2 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
9 = 9U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
2 = 200 - 299mm
3 = 300 - 399mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2 x HS, N + 1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
6 = 600 - 699 watts (w/o 3.3V)
7 = 700 - 799 watts (w/o 3.3V)
J = 1000 - 1099 watts (w 3.3V)
K = 1100 - 1199 watts (w 3.3V)
L = 1200 - 1299 watts (w 3.3V)
O = 1500 - 1599 watts (w 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 12H, 12U - 19" Rackmount,
High Availability Chassis



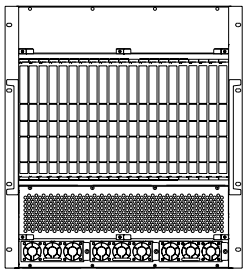
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 12U x 84HP x 400mm (H x W x D)
- 8, 16, 17 or 21 slots
- PICMG: 2.0, 2.16, 2.17 backplanes (H.110 optional)
- Redundant cooling, front to rear
- Advanced EMC shielding to meet CE, FCC and NEBS
- PSU inputs (90 – 264 VAC or 48VDC)
- PSU options: Up to 3 x 600 W, Plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run – turnkey solution

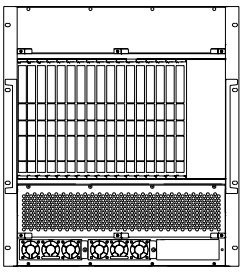
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting of pre-galvanized steel enclosures, high performance CPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



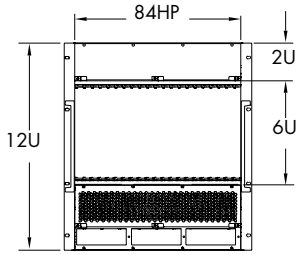
Description	Order Number
■ 12U H x 84HP W x 400mm D ■ 21 slot, 6U x 160mm, front ■ 21 slot, 6U x 80mm, rear I/O ■ 21 slot BP, (PICMG 2.16, 2 x FS, wo/H.110) ■ Front to rear, redundant cooling ■ 2 x removable fan trays (3 x 118 CFM each), w/air filter ■ 3 x 600W PSUs - Plug removable, N+1	12H21FDXC8Y4VQFX



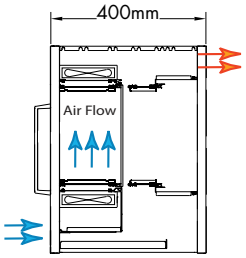
Description	Order Number
■ 12U H x 84HP W x 400mm D ■ 17 slot, 6U x 160mm, front ■ 17 slot, 6U x 80mm, rear I/O ■ 17 slot BP, (PICMG 2.17, 1 x FS) ■ Front to rear, redundant cooling ■ 2 x removable fan trays (3 x 118 CFM each), w/air filter ■ 2 x 600W PSUs - Plug removable, N+1	12H17JDXC8Y4VPFX

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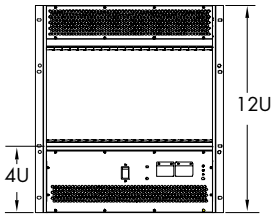
LINE DRAWINGS



Front View



Side View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

12C ❑ ❑ ❑ ❑ ❑ C 8 Y 4 V ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
06 = 6 slot
08 = 8 slot
16 = 16 slot
DD = 4+4
FF = 6+6
HH = 8+8

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
J = 2.17, 1 x FS (no H.110)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
C = 12U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
4 = 400 - 499mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
F = 600 - 699 watts (w 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 15 Rackmountable Chassis System Overview

ELMA
Your Solution Partner



DESCRIPTION

Elma Type 15C family of enclosures provide an elegant and versatile platform for packaging desktop or rackmount CompactPCI (2.0, 2.16, 2.17, 2.20, EXP.0) applications. Designed to IEEE 1101.10/.11 standards, Type 15C enclosures give advanced EMC shielding protection and are available with a wide range of options. Based on a modular packaging approach, the system can be configured by selecting the backplane, PSU, device modules and the number of slots. Engineered for superior cooling the Type 15C is available with either front to rear or bottom to top airflow. Standard heights are 4U, 9U and 10U with custom sizes possible. The Type 15C will accept 3U or 6U cards mounted vertically or horizontally. Systems can be configured with or without rear I/O card cage. Tilt feet and handles are standard on most models. Double-walled construction, rounded edges, and a powder-coated aluminum finish make the Type 15 the "Cadillac" of Elma chassis.







TECHNICAL FEATURES:

- Dimensions according to IEEE 1101.10/.11
- Double-walled construction
- Elegant design, rounded edges
- Scratch resistant powder coat finish (light grey, RAL 7035)
- Front mount molded handles
- 160mm/80mm card guides with keying and ESD clip
- Advanced EMC shielding
- Easy access for maintenance
- Aluminum sides and extrusions, galvanized steel covers
- Rugged for industrial use
- Designed to meet UL, CE, FCC and NEBS requirements

CONFIGURATION OPTIONS:

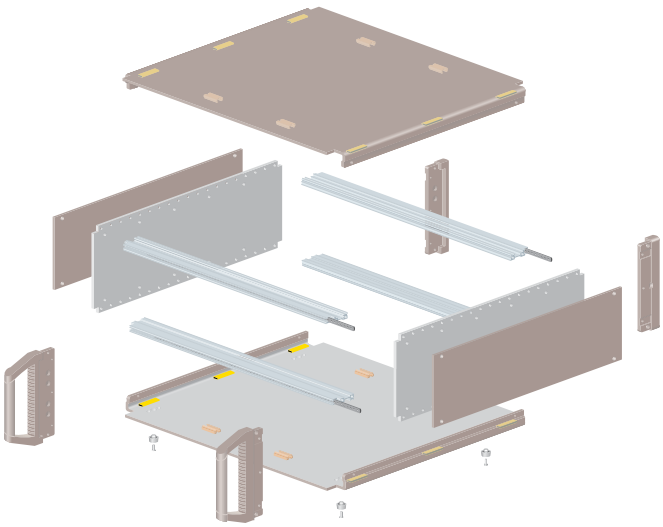
- Compatible with PICMG: 2.0, 2.16, 2.17, 2.20, EXP.0 (cPCI Express)
- H.110 optional
- Mounting for 3U or 6U cPCI cards
- Vertical or horizontal card mounting (flush or recessed)
- Available heights 4U to 10U
- Rear I/O Standard
- Standard 4, 6, 8 and 16 slot backplanes
- Wide range of EMC shield peripheral modules
- Wide range of PSU options: fix mount, plug in, N+1
- 90-240VAC or 48VDC input
- Shelf Management: PICMG 2.9, IPMI

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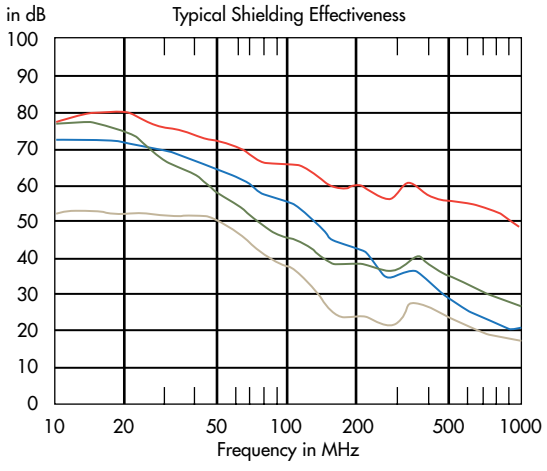
TYPE 15C

Type 15C provides maximum flexibility with and extrusion-based modular design. Boards and modules can be inserted from front to rear.



Typical Attenuation

EMC Basic Level	case size 4U x 42HP x 245mm (9.64) with standard front panels (cover panels perforated and unperforated)
EMC Basic Level	case size 4U x 84HP x 396mm (15.55) with standard front panels (cover panels perforated and unperforated)
Advanced EMC Level	case size 4U x 84HP x 396mm (15.55) with EMC front panels and gasket set for advanced EMC level (cover panels perforated and unperforated)
Superior EMC Level	case size 4U x 84HP x 396mm (15.55) with EMC front panels and gasket set for superior EMC level (cover panels perforated and unperforated)



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Type 15C, 4U - 19" Rackmount, Vertical

ELMA
Your Solution Partner



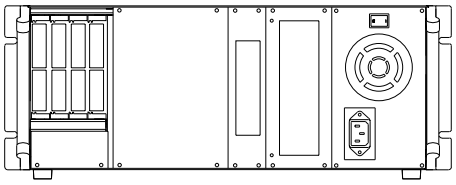
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 4U x 84HP x 290mm (H x W x D)
- 3, 4, 6, or 8 slots
- PICMG: 2.0, EXP.0 backplane
- Cooling bottom to top
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 – 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run – turnkey solution

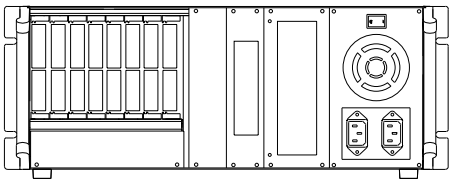
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting scratch resistant, powder coated alodined aluminum enclosures, high performance PICMG 2.0, 2.16, 2.17 backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

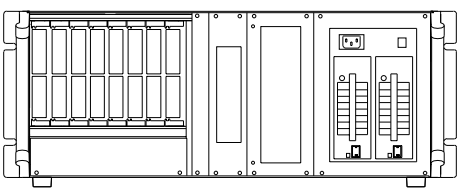
ORDERING INFORMATION



Description	Order Number
■ 4U H x 84HP W x 290mm D ■ 4-Slot BP, 3U EXP.0 (cPCI Express) ■ No rear I/O ■ 1 x 5.25" HH and 1 x 3.5", devices ■ 1 x 90 CFM fans, bottom to top cooling ■ 1 x 300W PSU - ATX, Fixed	15C04LA948N2VC3X



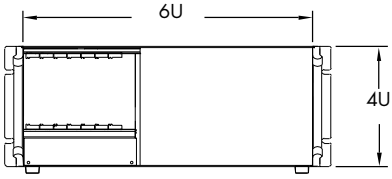
Description	Order Number
■ 4U H x 84HP W x 290mm D ■ 8 slot, 3U x 160mm, front ■ No rear I/O ■ 8 slot BP, 3U (PICMG 2.0) ■ 1 x 5.25" HH and 1 x 3.5", devices ■ 1 x 90 CFM fans, bottom to top cooling ■ 1 x 300W PSUs - ATX, Fixed	15C08BB948N2VC3X



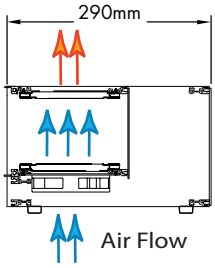
Description	Order Number
■ 4U H x 84HP W x 290mm D ■ 8 slot, 6U x 160mm, front ■ No rear I/O ■ 8 slot BP, 3U(PICMG 2.0) ■ 1 x 90 CFM fans, bottom to top cooling ■ 2 x 250W PSUs - ATX, Plug removable, N+1	15C08BB948N3VE2X

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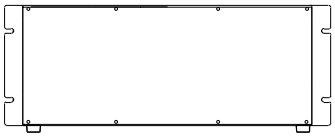
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

15C ❑ ❑ ❑ ❑ ❑ 4 8 N 2 V ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
06 = 6 slot
08 = 8 slot
DD = 4+4
FF = 6+6
HH = 8+8

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION: P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
E = P1 S; P2, P3, P4, P5 L
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
4 = 4U

❑ WIDTH
8 = 84 T

❑ REAR I/O
N = No

❑ DEPTH
2 = 200 - 299mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2xHS, N+1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2xHS, N+1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 15C, 4U - 19" Rackmount, Horizontal

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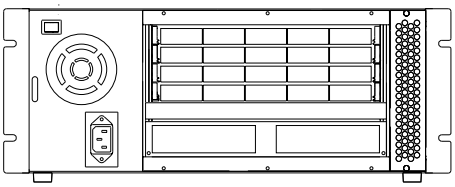
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 4U x 84HP x 290mm (H x W x D)
- 4, or 6 slot
- PICMG: 2.0, 2.16, EXP.0 backplanes (H.110 optional)
- Cooling front to rear (1 x 90 CFM), plug removable
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

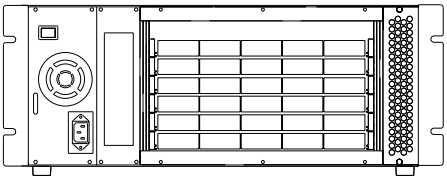
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting scratch resistant, powder coated alodined aluminum enclosures, high performance PICMG 2.0, 2.16, 2.17 backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



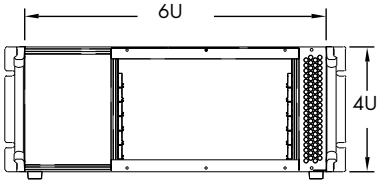
Description	Order Number
■ 4U H x 84HP W x 290mm D ■ 4 slot, 6U x 160mm, front ■ 4 slot, 6U x 80mm, rear I/O ■ 4 slot BP, (PICMG 2.0, no/H.110) ■ 2 x 3.5", devices ■ 1 x 90 CFM fan, bottom to top cooling ■ 1 x 300W, PSU - ATX, Fixed	15C04AD248Y2HC3X



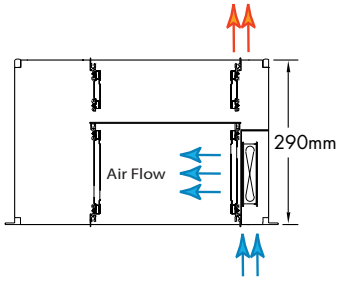
Description	Order Number
■ 4U H x 84HP W x 290mm D ■ 6 slot, 6U x 160mm, front ■ 6 slot, 6U x 80mm, rear I/O ■ 6 slot BP, (PICMG 2.0, w/H.110) ■ 1 x 3.5", devices ■ 1 x 90 CFM fans, front to rear cooling ■ 1 x 250W, PSU - Fixed	15C06CC148Y2HC2X

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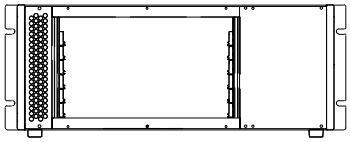
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

15C ❑ ❑ ❑ ❑ ❑ 4 8 Y 2 H ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
06 = 6 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
5 = 4 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
8 = 2 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
4 = 4U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
2 = 200 - 299mm

❑ CARD ORIENTATION
H = Horizontal

❑ PSU INPUT
A = 110/220VAC (Plug-in)
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2 x HS, N + 1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
6 = 600 - 699 watts (w/o 3.3V)
7 = 700 - 799 watts (w/o 3.3V)
8 = 800 - 899 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 15H, 9U - 19" Rackmount,
High Availability Chassis



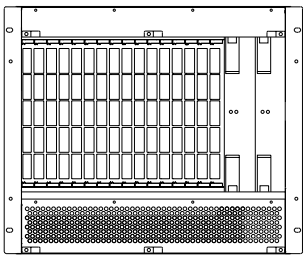
FEATURES:

- 19" Rackmount/ Desktop fully compliant to IEEE1101.10/.11
- 9U x 84HP x 290mm (H x W x D)
- 8, 16 or 21-slot,
- PICMG: 2.0, 2.16, 2.17, backplanes (H.110 optional)
- Redundant cooling front to rear (3 x 90 CFM) below cards, 2 x 540 CFM radial blowers above cards
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

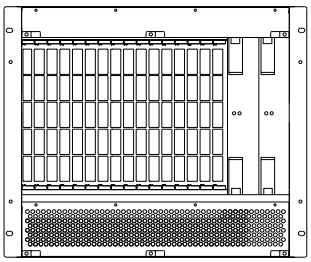
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting scratch resistant, powder coated alodined aluminum enclosures, high performance PICMG 2.0, 2.16, 2.17 backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



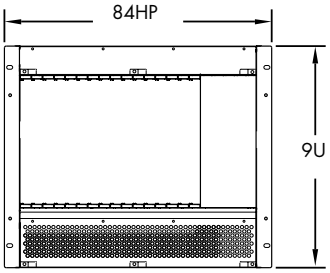
Description	Order Number
■ 9U H x 84HP W x 290mm D ■ 16 slot, 6U x 160mm, front ■ 16 slot, 6U x 80mm, rear I/O ■ 16 slot BP, (PICMG 2.16, 2 x FS, no/H.110) ■ Front to rear, redundant cooling ■ 3 x 90 CFM fans, 2 x 50CFM radial blowers ■ 2 x 350W PSU - 6U, Plug removable, N+1	15H16FDX98Y2VP3X



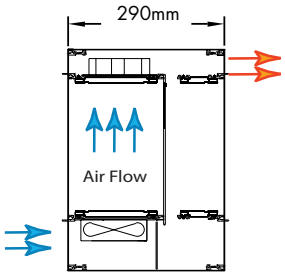
Description	Order Number
■ 9U H x 84HP W x 290mm D ■ 16 slot, 6U x 160mm, front ■ 16 slot, 6U x 80mm, rear I/O ■ 16 slot BP, (PICMG 2.0, w/H.110) ■ Front to rear, redundant cooling ■ 3 x 90 CFM fans, 2 x 50CFM radial blowers ■ 2 x 350W PSU - 6U, Plug removable, N+1	15H16CCX98Y2VP3X

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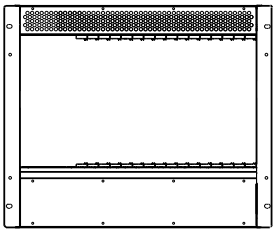
LINE DRAWINGS



Front View



Top View


Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

15C ❑ ❑ ❑ ❑ ❑ 9 8 Y 2 V ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
06 = 6 slot
08 = 8 slot
16 = 16 slot
DD = 4+4
FF = 6+6
HH = 8+8

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
9 = 9U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
2 = 200 - 299mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2xHS, N+1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2xHS, N+1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
4 = 400 - 499 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
J = 1000 - 1099 watts (w 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 15C, 9U - 19" Rackmount/Desktop, Vertical

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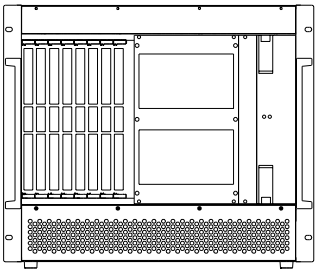
FEATURES:

- 19" Rackmount/ Desktop fully compliant to IEEE 1101.10/.11
- 9U x 84HP x 290mm (H x W x D)
- 8 or 16-slot
- PICMG: 2.0, 2.16, 2.17, EXP.0 backplanes (H.110 optional)
- Cooling front to rear (3 x 90 CFM) - Ind. removable
- Advanced EMC shielding to meet CE, FCC
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

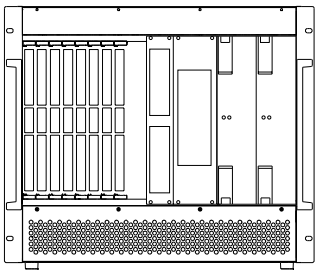
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting scratch resistant, powder coated alodined aluminum enclosures, high performance PICMG 2.0, 2.16, 2.17 backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



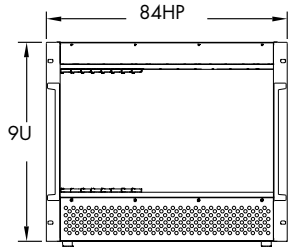
Description	Order Number
■ 9U H x 84HP W x 290mm D ■ 8 slot, 6U x 160mm, front ■ 8 slot, 6U x 80mm, rear I/O ■ 8 slot BP, (PICMG 2.0, no/H.110) ■ 4 x 5.25" HH, devices ■ 3 x 90 CFM fans, front to rear cooling ■ 1 x 350W PSU - 6U, Plug removable	15C08AD598Y2VG3X



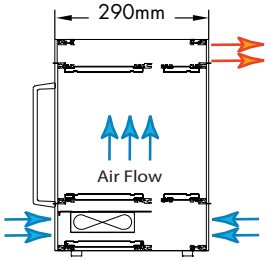
Description	Order Number
■ 9U H x 84HP W x 290mm D ■ 8 slot, 6U x 160mm, front ■ 8 slot, 6U x 80mm, rear I/O ■ 8 slot BP, (PICMG 2.16, 2 x FS, w/H.110) ■ 1 x 5.25" HH, 2 x 3.5" devices ■ 3 x 90 CFM fans, front to rear cooling ■ 2 x 350W PSU - 6U, Plug removable, N+1	15C08HC698Y2VP3X

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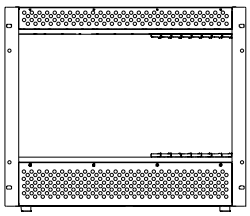
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

15C ❑ ❑ ❑ ❑ ❑ 9 8 Y 2 V ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
06 = 6 slot
08 = 8 slot
16 = 16 slot
DD = 4+4
FF = 6+6
HH = 8+8

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = C EX (1 SS, 1 x type, 2 x type2)
U = C EX (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
5 = 4 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
9 = 9U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
2 = 200 - 299mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2 x HS, N + 1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
4 = 400 - 499 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
J = 1000 - 1099 watts (w 3.3V)
K = 1100 - 1199 watts (w 3.3V)
L = 1200 - 1299 watts (w 3.3V)
O = 1500 - 1599 watts (w 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 15C, 10U - 19" Rackmount/Desktop, Vertical

ELMA
Your Solution Partner



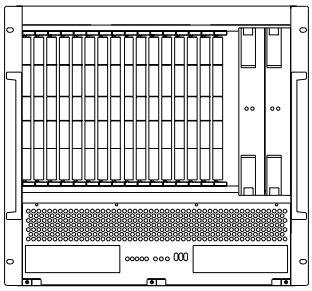
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 10U x 84HP x 390mm (H x W x D)
- 8, 16 or 20 slot
- PICMG: 2.0, 2.16, 2.17, EXP.0 backplanes (H.110 optional)
- Cooling front to rear (3 x 100 CFM), independantly plug removable
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution
- Removable NEBS-compliant air filter

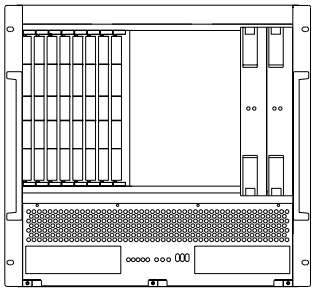
SCOPE OF SUPPLY

High quality 19" rackmount chassis platform consisting scratch resistant, powder coated alodined aluminum enclosures, high performance PICMG 2.0, 2.16, 2.17 backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



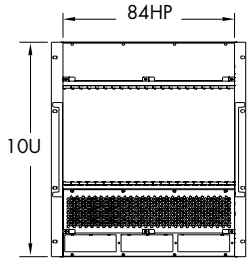
Description	Order Number
■ 10U H x 84HP W x 390mm D ■ 16 slot, 6U x 160mm, front ■ 16 slot, 6U x 80mm, rear I/O ■ 16 slot BP, (PICMG 2.0, w/H.110) ■ 2 x 5.25" HH, devices ■ 3 x 100 CFM fans, front to rear cooling ■ 2 x 350W PSU - 6U, Plug removable, N+1	15C16CC4A8Y3VP3X



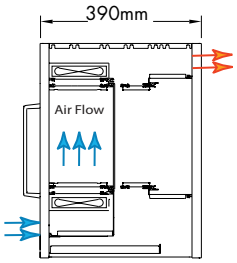
Description	Order Number
■ 10U H x 84HP W x 390mm D ■ 8 slot, 6U x 160mm, front ■ 8 slot, 6U x 80mm, rear I/O ■ 6 slot BP, (PICMG 2.16, 2 x FS w/H.110) ■ 2 x 5.25" HH, devices ■ 3 x 100 CFM fans, front to rear cooling ■ 2 x 350W PSU - 6U, Plug removable, N+1	15C08HC4A8Y3VP3X

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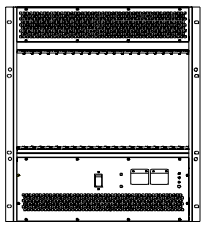
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC Class A or B, CE	

CUSTOM CONFIGURATIONS

15C ❑ ❑ ❑ ❑ ❑ A 8 Y 3 V ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA Split
02 = 2 slot
04 = 4 slot
06 = 6 slot
08 = 8 slot
16 = 16 slot
DD = 4+4
FF = 6+6
HH = 8+8

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION: P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
A = 10U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
3 = 300 - 399mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2 x HS, N + 1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
4 = 400 - 499 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
J = 1000 - 1099 watts (w 3.3V)
L = 1200 - 1299 watts (w 3.3V)
M = 1300 - 1399 watts (w 3.3V)
O = 1500 - 1599 watts (w 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 32C Portable Tower Chassis System Overview

ELMA
Your Solution Partner



DESCRIPTION

Elma Type 32C family of enclosures provide a lightweight, tower platform for packaging portable CompactPCI applications. Designed to IEEE 1101.10/.11 standards, Type 32C enclosures give advanced EMC shielding protection and are available with a wide range of options. Based on a modular packaging approach, the system can be configured by selecting the backplane, PSU, device modules and the number of slots. Engineered for superior cooling the Type 32C is available with front to rear airflow. Standard heights are 63HP and 84HP (HP=.2") and widths, 4U and 6U. The Type 32C accepts 6U cards mounted vertically. Systems can be configured with or without rear I/O card cage. The basic chassis features vinyl clad aluminum covers for a scratch resistant, attractive finish. Standard features include feet and carrying handle.



TECHNICAL FEATURES:

- Dimensions according to IEEE 1101.10/.11
- Elegant portable design, perfect for test equipment, lab asset, portable sales demo
- Scratch resistant vinyl clad aluminum covers
- Sturdy carrying handle
- Fully compliant 160mm & 80mm card guides with keying and ESD clip
- Advanced EMC shielding
- Aluminum sides, extrusions and covers
- Rugged for industrial use
- Designed to meet UL, CE and FCC requirements



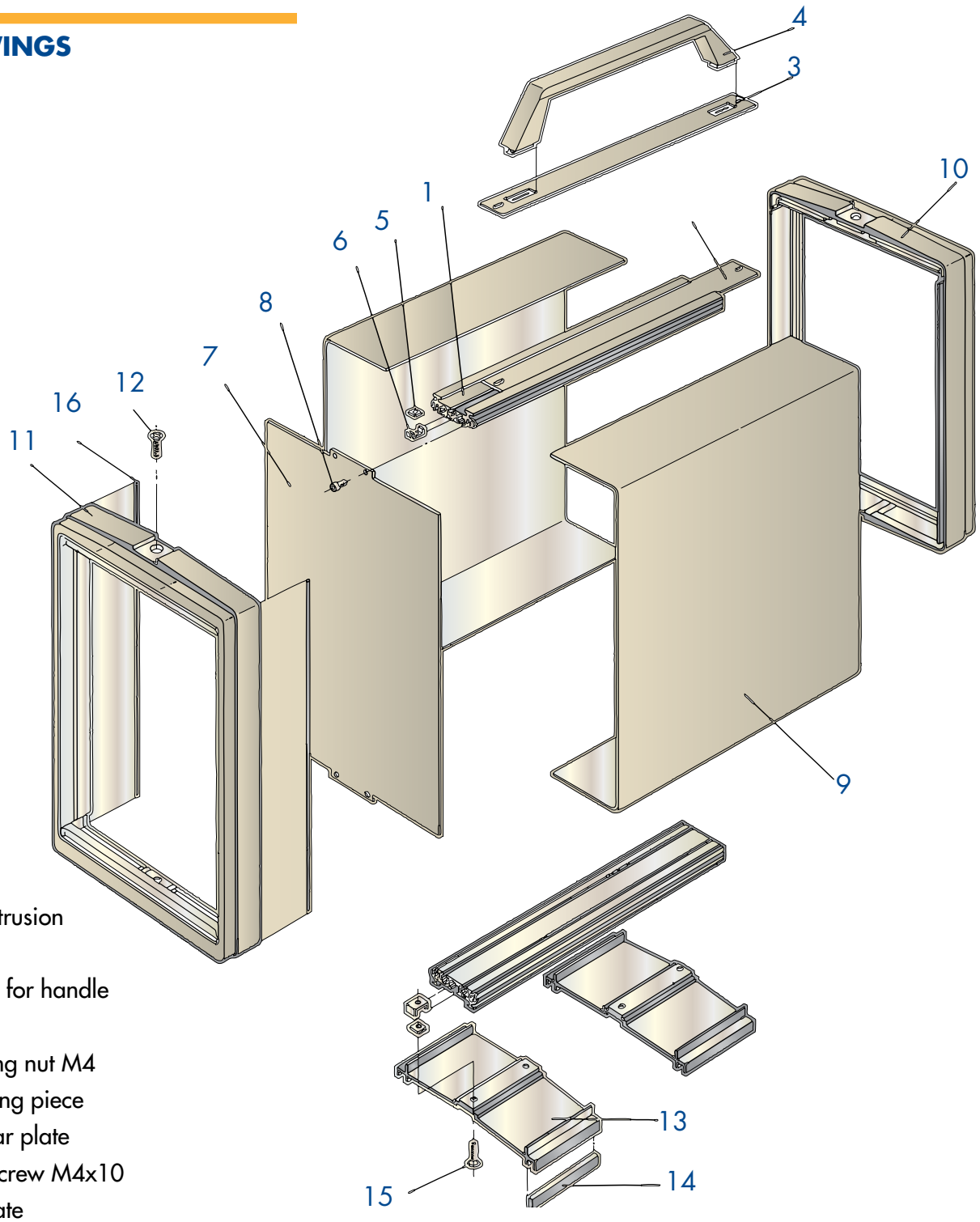
CONFIGURATION OPTIONS:

- Mounting for 6U or 3U cPCI cards
- Vertical card mounting
- Available heights 63HP (13") and 84HP (17")
- 4U and 6U widths
- Rear I/O
- Various backplane slot sizes for cPCI, cPCI Express, and cPSB (2.16) architectures
- Wide range of EMC shielded device modules
- Wide range of shielded PSU's modules 4U or 6U
- AC or DC input
- System Monitoring



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LINE DRAWINGS



1.) Depth extrusion
2.) Trim strip
3.) Trim strip for handle
4.) Handle
5.) Grounding nut M4
6.) Nut-locking piece
7.) Front/rear plate
8.) Special screw M4x10
9.) Cover plate
10.) Front bezel
11.) Rear bezel
12.) Grounding screw M4x12, powder-coated
13.) Vertical foot
14.) Rubber insert
15.) Earthing screw M4x12
16.) Rubber section

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Type 32C, 4U - Portable Tower
Small



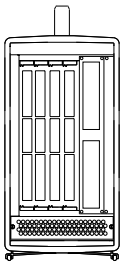
FEATURES:

- Portable tower fully compliant to IEEE 1101.10/.11
- 4U x 63HP x 310mm (W x H x D)
- 3, 4, or 6 slot, 6U x 160mm boards
- PICMG: 2.0, 2.16, 2.17, 2.20 backplanes (H.110 optional)
- Cooling front to rear (1 x 90 CFM), plug removable
- Advanced EMC shielding to meet CE and FCC
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

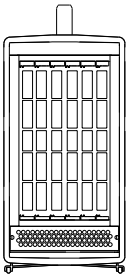
SCOPE OF SUPPLY

High quality portable or deskside tower platform consisting of vinyl clad aluminum enclosures, high performance CPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



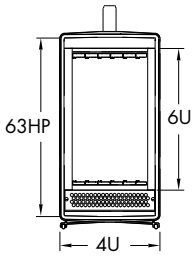
Description	Order Number
■ 4U W x 63HP H x 310mm D ■ 4 slot, 6U x 160mm, front ■ No rear I/O ■ 4 slot BP, (PICMG 2.16, 1 x FS no/H.110) ■ 2 X. 3.5" Devices ■ 1 x 90 CFM fan, front to side cooling ■ 250W, PSU - Fixed, rear	32C04ED246N3VC2X



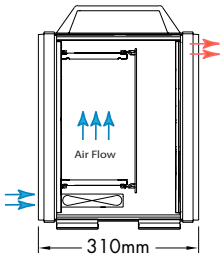
Description	Order Number
■ 4U W x 63HP H x 310mm D ■ 6 slot, 6U x 160mm, front ■ No rear I/O ■ 6 slot BP, (PICMG 2.0, no/H.110) ■ No device mounting ■ 1 x 90 CFM fan, front to side cooling ■ 250W, PSU - Fixed, rear	32C06ADX46N3VC2X

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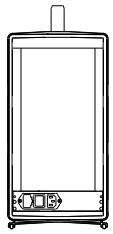
LINE DRAWINGS



Front View



Side View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC, CE	

CUSTOM CONFIGURATIONS

32C ❑❑❑❑❑ 4 6 N 3 V ❑❑❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot
04 = 4 slot
06 = 6 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
M = 9U horiz. Rev 2.0
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION: P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
6 = 63 T

❑ WIDTH
4 = 4U

❑ REAR I/O
N = No

❑ DEPTH
3 = 300 - 399mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
R = 28VDC (Fixed)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
4 = 400 - 499 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 32C, 4U - 19" Portable Tower
Medium



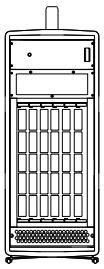
FEATURES:

- Portable tower fully compliant to IEEE 1101.10/.11
- 4U x 84HP x 310mm (W x H x D)
- 3, 4, 6 or 8 slot,
- PICMG: 2.0, 2.16, 2.17, EXP.0 backplanes (H.110 optional)
- Cooling front to rear (1 x 90 CFM), plug removable
- Advanced EMC shielding to meet CE and FCC
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

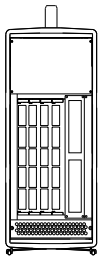
SCOPE OF SUPPLY

High quality portable or deskside tower platform consisting of vinyl clad aluminum enclosures, high performance CPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



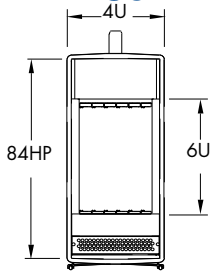
Description	Order Number
■ 4U W x 84HP H x 310mm D ■ 6 slot, 6U x 160mm, front ■ 6 slot, 6U x 80mm, rear I/O ■ 6 slot BP, (PICMG 2.0) ■ 1 x 5.25" HH ■ 1 x 90 CFM fans, front to rear cooling ■ 1 x 250W PSUs - Fixed	32C06AD348Y3VC2X



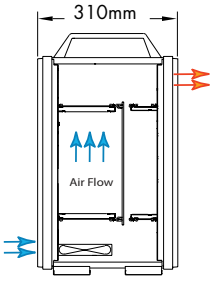
Description	Order Number
■ 4U W x 84HP H x 290mm D ■ 4 slot, 6U x 160mm, front ■ No rear I/O ■ 4 slot BP, (PICMG 2.0) ■ 2 x 3.5", devices ■ 1 x 90 CFM fans, front to rear cooling ■ 1 x 300W, fixed PSU	32C04AD248Y3VC3X

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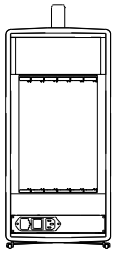
LINE DRAWINGS



Front View



Side View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
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Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC, CE	

CUSTOM CONFIGURATIONS

32C ❑❑❑❑❑ 4 8 ❑ 3 V ❑❑❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot
04 = 4 slot
06 = 6 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
5 = 4 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
4 = 4U

❑ WIDTH
8 = 84 T

❑ REAR I/O
N = No
Y = Yes

❑ DEPTH
3 = 300 - 399mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2xHS, N+1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
J = 24VDC (Plug-in)
M = 48VDC (2xHS, N+1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
E = 500 - 599 watts (w 3.3V)
F = 600 - 699 watts (w 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

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Type 32C, 6U - Portable Tower
Small



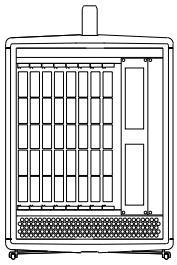
FEATURES:

- Portable tower fully compliant to IEEE 1101.10/.11
- 6U x 63HP x 310mm (W x H x D)
- 3, 4, 6 or 8 slot
- PICMG: 2.0, 2.16, 2.17, EXP.0 backplanes (H.110 optional)
- Cooling front to rear (2 x 90 CFM), plug removable
- Advanced EMC shielding to meet CE, and FCC
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

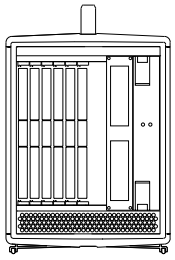
SCOPE OF SUPPLY

High quality portable or deskside tower platform consisting of vinyl clad aluminum enclosures, high performance CPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



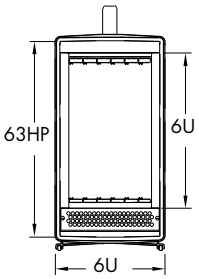
Description	Order Number
■ 6U W x 63HP H x 310mm D ■ 8 slot, 6U x 160mm, front ■ No rear I/O ■ 8 slot BP, (PICMG 2.0, no/H.110) ■ 2 x 3.5", devices ■ 2 x 90 CFM fan, bottom to top cooling ■ 250W, PSU - Fixed, rear	32C08AD266N3VC2X



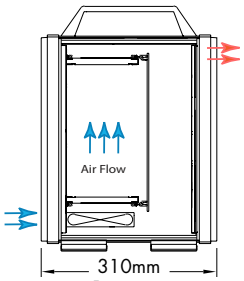
Description	Order Number
■ 6U W x 63HP H x 310mm D ■ 6 slot, 6U x 160mm, front ■ 6 slot, 6U x 80mm I/O ■ 6 slot BP, (PICMG 2.16, 1 X FS, no/H.110) ■ 2 x 3.5", devices ■ 2 x 90 CFM fan, bottom to top cooling ■ 350W, PSU - 6U, Plug removable	32C06ED266Y3VG3X

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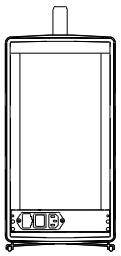
LINE DRAWINGS



Front View



Side View


Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC, CE	

CUSTOM CONFIGURATIONS

32C ❑❑❑❑❑ 6 6 ❑ 3 V ❑❑❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot
04 = 4 slot
06 = 6 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION: P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
6 = 6U

❑ WIDTH
6 = 63 T

❑ REAR I/O
N = No
Y = Yes

❑ DEPTH
3 = 300 - 399mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 32C, 6U - Portable Tower
Medium



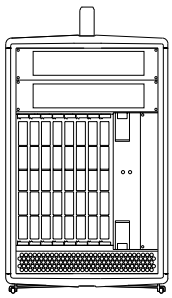
FEATURES:

- Portable tower fully compliant to IEEE 1101.10/.11
- 6U x 84HP x 310mm (W x H x D)
- 3, 4, 6 or 8 slot
- PICMG: 2.0, 2.16, 2.17, EXP.0 backplanes (H.110 optional)
- Cooling front to rear, plug removable
- Advanced EMC shielding to meet CE, and FCC
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

SCOPE OF SUPPLY

High quality portable or deskside tower platform consisting of vinyl clad aluminum enclosures, high performance CPCI backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

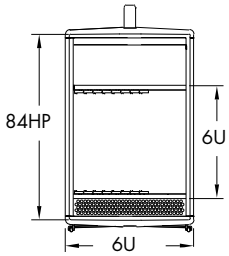
ORDERING INFORMATION



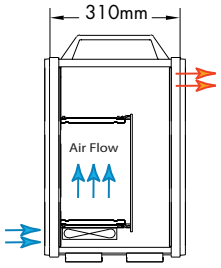
Description	Order Number
■ 6U W x 84HP H x 310mm D ■ 8 slot, 6U x 160mm, front ■ No rear I/O ■ 8 slot BP, (PICMG 2.0, no/H.110) ■ 2 x 5.25", devices ■ 2 x 90 CFM fan, bottom to top cooling ■ 350W, PSU - 6U, Plug removable	32C08AD468N3VG3X

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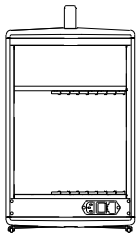
LINE DRAWINGS



Front View



Side View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, CE	

CUSTOM CONFIGURATIONS

32C ❑❑❑❑❑ 6 8 N 3 V ❑❑❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot
04 = 4 slot
06 = 6 slot
08 = 8 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION: P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
5 = 4 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
6 = 6U

❑ WIDTH
8 = 84 T

❑ REAR I/O
N = No

❑ DEPTH
3 = 300 - 399mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
D = 90 - 230VAC (2xQC, N+1)
E = 110/220VAC (2xHS, N+1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
J = 24VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2xHS, N+1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
4 = 400 - 499 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

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Type 39C Chassis System Overview

ELMA
Your Solution Partner





DESCRIPTION

The Type 39C is a advanced generation of CompactPCI enclosures for PICMG 2.0, 2.16, 2.17, and EXP.0 applications. This family of chassis showcases an optimal design that addresses EMC, cooling, and ease of manufacturing, in a highly attractive, cost effective package. The black powder coated platforms are available in rackmount or desktop versions. They comply fully to IEEE 1101.10/11 specifications with horizontal mounting for 6U x 160mm cPCI cards from the front and 6U x 80mm I/O cards from the rear. The platforms are designed to hold a wide variety of storage devices depending on the configurations. The thermal engineering guarantees superior cooling with front-to-rear or side-to-side airflow, considering card, device and power supply requirements. Standard 2, 3, 4, 5, 6 and 8 slot backplanes can be mounted. Fix mount or plug-in power supplies are standard options. A primary consideration was EMC compliance. The platforms meet the strict requirements of CE, FCC Class A and NEBS.



TECHNICAL FEATURES:

- Dimensions according to IEEE 1101.10/.11
- Hot-dip galvanized steel - not for E-Frame)
- Elegant design
- Powder coat finish
- Rackmount, tower or desktop options
- Fully compliant 160mm and 80mm card guides with keying and ESD clip
- Advanced EMC shielding
- Rugged for industrial use
- Designed to meet UL, CE and FCC requirements



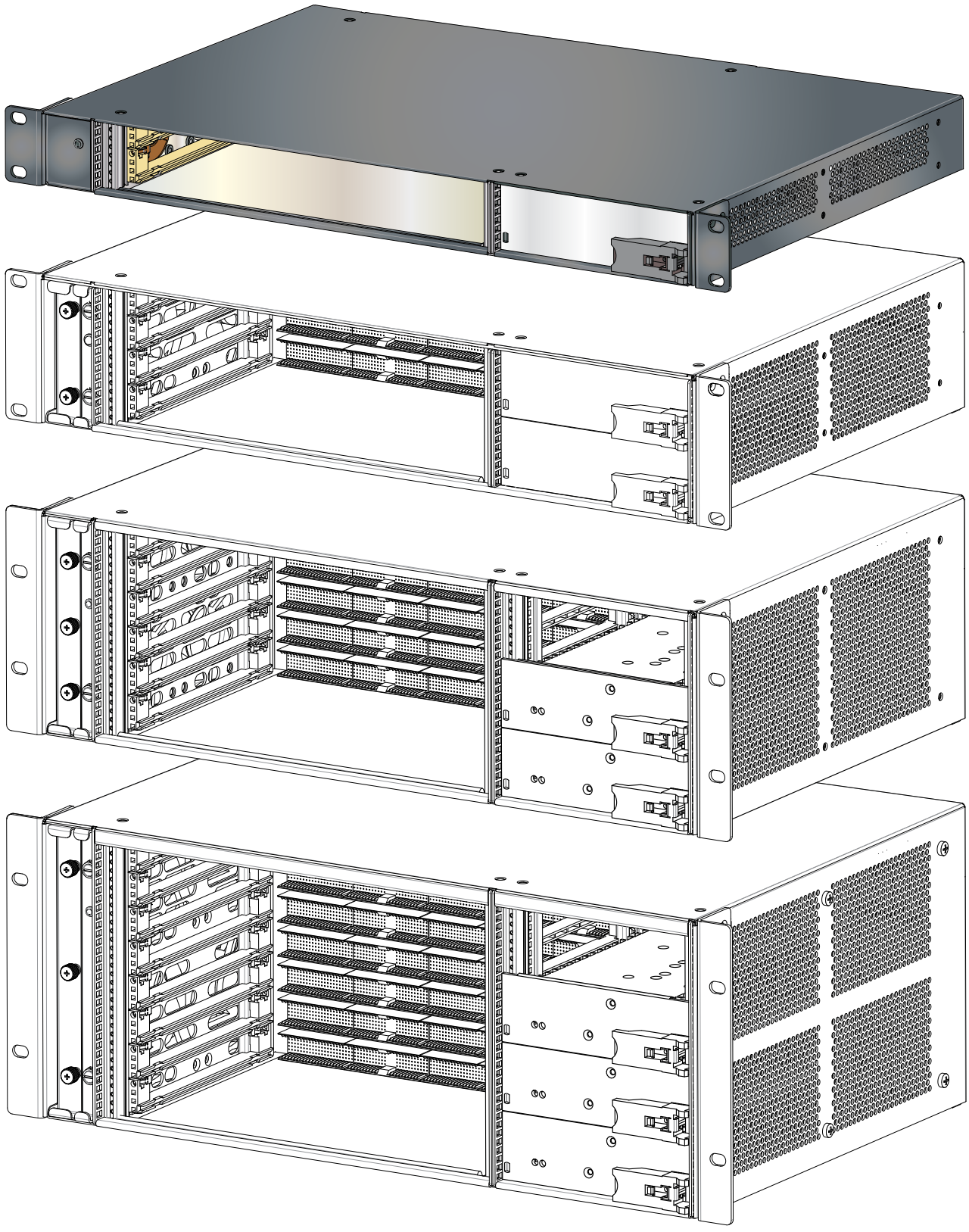
CONFIGURATION OPTIONS:

- Compatible with PICMG: 2.0, 2.16, 2.17, EXP.0
- H.110 optional
- Mounting for 6U cPCI cards, vertical
- Standard heights of 1U, 2U, 3U and 4U
- Rear I/O Standard
- Standard 2-8 slot backplanes
- Wide range of storage device options
- Wide range of PSU options: fix mount, plug in, N+1
- 90-240VAC or 48VDC input
- Shelf Management: PICMG 2.9, IPMI

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LINE DRAWINGS

SYSTEM 39C ENCLOSURE - 1U / 2U / 3U / 4U



Type 39C, 1U - 19" Rackmount/Desktop
Horizontal - Pluggable



FEATURES:

- 19" Rackmount/Desktop fully compliant to Eurocard, IEEE 1101.10/11, and PICMG 2.0
- 1U x 84HP x 290mm (H x W x D)
- 6U horizontal card mounting
- 2 slot
- PICMG: 2.0 backplanes
- Advanced EMC shielding to meet CE, FCC, and NEBS
- Cooling side to side
- Pluggable PSU
- Ready to run - turnkey solution

SCOPE OF SUPPLY

High quality platform consisting of black painted sheet steel enclosure, high performance PICMG 2.0 backplane, pluggable power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

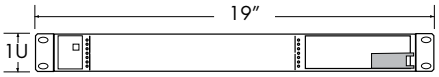
ORDERING INFORMATION



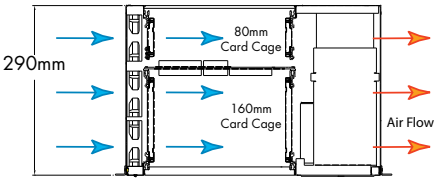
Description	Order Number
■ 1U H x 443mm W x 290mm D ■ 2 slot, 6U x 160mm, front ■ 2 slot, 6U x 80mm, rear I/O ■ No Device Mounting ■ 2 slot BP, (PICMG 2.0, no/H.110) ■ 3 x 8 CFM fans, side to side ■ 1 x 250W, PSU - Plug in	39C02ADX18Y2HG2X

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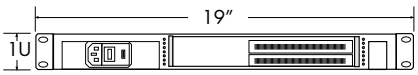
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC, CE	

CUSTOM CONFIGURATIONS

39 V ❑❑❑❑❑ 1 8 Y 2 H ❑❑❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION: P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5″
X = Not Installed

❑ HEIGHT
1 =1U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
2 = 200 - 299mm

❑ CARD ORIENTATION
H = Horizontal

❑ PSU INPUT
C = 90-230VAC (Fixed)
G = 90-230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
N = 28VDC (Fixed)
O = 28VDC (2 x HS, N+1)
P = 90-230VAC (2 x HS, N + 1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

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Type 39C, 2U - 19" Rackmount/Desktop
Horizontal



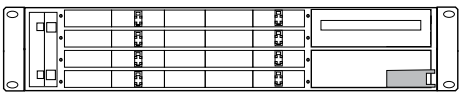
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 2U x 84HP x 290mm (H x W x D)
- 2, 3 or 4-slot
- PICMG: 2.0, 2.16, EXP.0 backplanes (H.110 optional)
- Cooling side to side
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 - 264 VAC, 48 VDC)
- Fixed-mount or front pluggable PSUs with redundant hot swap options
- System monitoring for DC voltages, fan fail and over temp (optional)
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

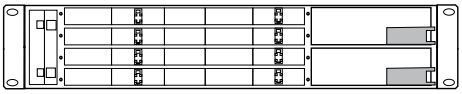
SCOPE OF SUPPLY

High quality platform consisting of black painted sheet steel enclosure, high performance PICMG 2.0, 2.16, EXP.0 backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



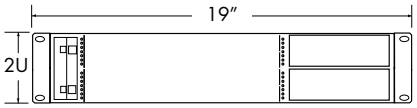
Description	Order Number
■ 2U H x 443mm W x 290mm D ■ 4 slot, 6U x 160mm, front ■ 4 slot, 6U x 80mm, rear I/O ■ 4 slot BP, (PICMG 2.0, no/H.110) ■ 1 x 3.5 ■ 3 x 40 CFM fans, side to side ■ 250W, PSU - 3U Plug removable	39C04AD128Y2HG2X



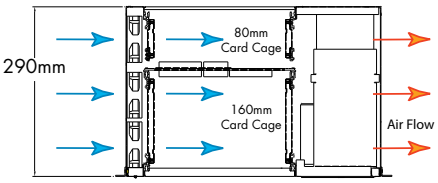
Description	Order Number
■ 2U H x 443mm W x 290mm D ■ 4 slot, 6U x 160mm, front ■ 4 slot, 6U x 80mm, rear I/O ■ 4 slot BP, (PICMG 2.16, IXFS, no/H.110) ■ No device mounting ■ 3 x 45 CFM fans, side to side ■ 2 x 250W, PSU - 3U Plug removable, N+1	39C04EDX28Y2HP2X

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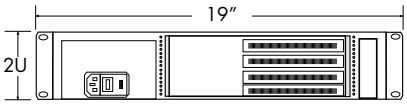
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC, CE	

CUSTOM CONFIGURATIONS

39C ❑ ❑ ❑ ❑ ❑ 2 8 Y 2 H ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H.110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = C EX (1 SS, 1 x type, 2 x type2)
M = 9U horiz. Rev 2.0
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
S = PXI
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION: P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5″
2 = 2 x 3.5″
X = Not Installed

❑ HEIGHT
2 = 2U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
2 = 200 - 299mm

❑ CARD ORIENTATION
H = Horizontal

❑ PSU INPUT
C = 90-230VAC (Fixed)
G = 90-230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
N = 28VDC (Fixed)
O = 28VDC (2 x HS, N+1)
P = 90-230VAC (2 x HS, N + 1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

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Type 39C, 3U - 19" Rackmount/Desktop
Horizontal



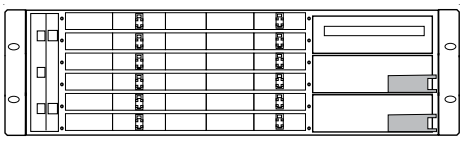
FEATURES:

- 19" Rackmount/Desktop fully compliant to Eurocard and IEEE standards
- 3U x 84HP x 290mm (H x W x D)
- 6U horizontal card mounting
- 2, 4 slot
- PICMG: 2.0, 2.16, EXP.0 backplanes (H.110 optional)
- Advanced EMC shielding to meet CE and FCC
- Cooling side to side
- PSU inputs (90 - 264 VAC, 48 VDC)
- Fixed-mount or front pluggable PSUs with redundant hot swap options or Wide range of PSU options: fix mount, plug in, N+1
- System monitoring for DC voltages, fan fail and over temp (optional)
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

SCOPE OF SUPPLY

High quality platform consisting of black painted sheet steel enclosure, high performance PICMG 2.0, 2.16, EXP.0 backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

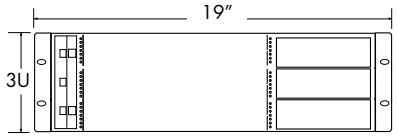
ORDERING INFORMATION



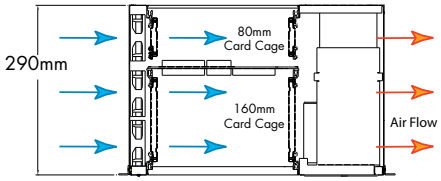
Description	Order Number
■ 3U H x 443mm W x 290mm D ■ 6 slot, 6U x 160mm, front ■ 6 slot, 6U x 80mm, rear I/O ■ 6 slot BP, (PICMG 2.0, no/H.110) ■ No device mounting ■ 3 x 45 CFM fans, side to side ■ 2 x 250W, PSU - 3U Plug removable	39C06AD138Y2HP2X

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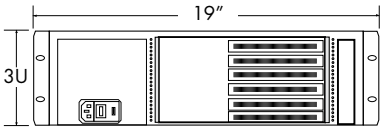
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC, CE	

CUSTOM CONFIGURATIONS

39C ❑❑❑❑❑ 3 8 Y 2 H ❑❑❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot
04 = 4 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
J = 2.17, 1 x FS (no H.110
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
3 = 3U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
3 = 300 - 399mm

❑ CARD ORIENTATION
H = Horizontal

❑ PSU INPUT
C = 90-230VAC (Fixed)
G = 90-230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
N = 28VDC (Fixed)
O = 28VDC (2 x HS, N+1)
P = 90-230VAC (2 x HS, N + 1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

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Type 39C, 4U - 19" Rackmount/Desktop
Horizontal



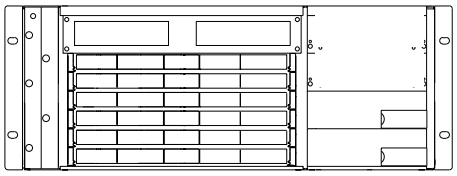
FEATURES:

- 19" Rackmount/Desktop fully compliant to Eurocard and IEEE standards
- 4U x 84HP x 290mm (H x W x D)
- 6 or 8 slot
- PICMG: 2.0, 2.16, 2.17, EXP.0 backplanes (H.110 optional)
- Cooling side to side
- Wide range of PSU inputs (90 - 264 VAC, 48 VDC)
- Fixed-mount or front pluggable PSUs with redundant hot swap options or Wide range of PSU options: fix mount, plug in, N+1
- System monitoring for DC voltages, fan fail and over temp (optional)
- Pluggable fan tray
- Removable filter tray
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

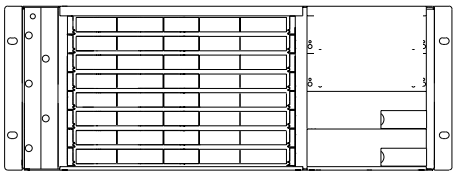
SCOPE OF SUPPLY

High quality platform consisting of black painted sheet steel enclosure, high performance PICMG 2.0, 2.16, EXP.0 backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

ORDERING INFORMATION



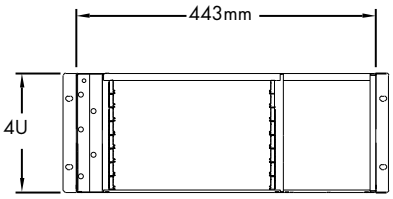
Description	Order Number
■ 4U H x 443mm W x 290mm D ■ 6 slot, 6U x 160mm, front ■ 6 slot, 6U x 80mm, rear I/O ■ 6 slot BP, (PICMG 2.0, no/H.110) ■ 2 x 3.5" devices ■ 7 fans (200 CFM total), side to side, plug removable ■ 2 x 250W, PSU - U, plug removable, N+1	39C06AD248Y2HP2X



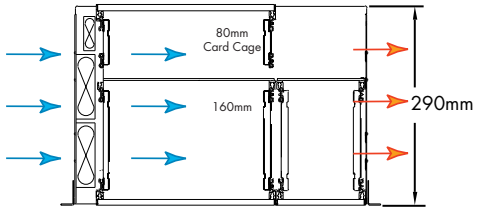
Description	Order Number
■ 4U H x 443mm W x 290mm D ■ 8 slot, 6U x 160mm, front ■ 8 slot, 6U x 80mm, rear I/O ■ 8 slot BP, (PICMG 2.16, 2 x FS no/H.110) ■ 2 x 3.5" devices ■ 7 fans (200 CFM total), side to side, plug removable ■ 2 x 250W, PSU - U, plug removable, N+1	39C08FD248Y2HP2X

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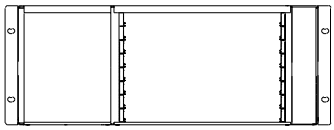
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC, CE	

CUSTOM CONFIGURATIONS

39C ❑ ❑ ❑ ❑ ❑ 4 8 Y 2 H ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
06 = 6 slot
08 = 8 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
4 = 4U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
2 = 200 - 299mm

❑ CARD ORIENTATION
H = Horizontal

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2xHS, N+1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2xHS, N+1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
4 = 400 - 499 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

Type 39C, 4U (Elite) - 19" Rackmount/Desktop
Horizontal



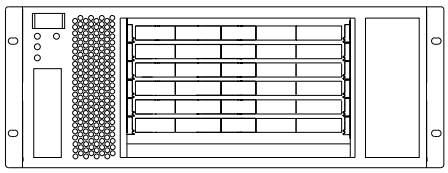
FEATURES:

- 19" Rackmount fully compliant to IEEE 1101.10/.11
- 4U x 443mm x 300mm (H x W x D)
- 2, 4, 6 or 8 slot,
- PICMG: 2.0, 2.16, 2.17, EXP.0 backplanes (H.110 optional)
- Cooling front to rear (1 x 90 CFM), plug removable
- Advanced EMC shielding to meet CE, FCC and NEBS
- Wide range of PSU inputs (90 - 264 VAC, 48VDC)
- Wide range of PSU options: fix mount, plug in, N+1
- Shelf Management: PICMG 2.9, IPMI (optional)
- Ready to run - turnkey solution

SCOPE OF SUPPLY

High quality platform consisting of black painted sheet steel enclosure, high performance PICMG 2.0, 2.16, EXP.0 backplane, power supply, cooling system and AC/DC power components. Assembled, wired and tested prior to shipment.

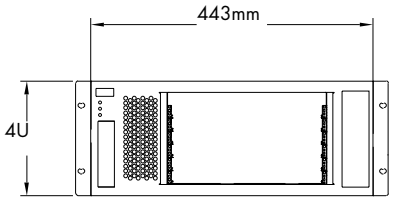
ORDERING INFORMATION



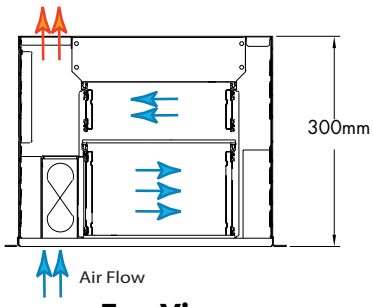
Description	Order Number
■ 4U H x 443mm W x 300mm D ■ 6 slot, 6U x 160mm, front ■ 6 slot, 6U x 80mm, rear I/O ■ 6 slot BP, (PICMG 2.0, no/H.110) ■ 2 x 3.5" devices, 1 x 5.25"HH devices ■ 1 x 90 CFM fan, front to rear cooling ■ 350W, PSU-ATX, Fixed	39C06AD648Y3HC3X

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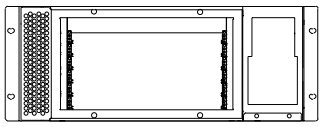
LINE DRAWINGS



Front View



Top View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC, CE	

CUSTOM CONFIGURATIONS

39C ❑❑❑❑❑ 4 8 Y 3 H ❑❑❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot
04 = 4 slot
06 = 6 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
L = CPCIe (1 SS, 1 x type, 2 x type2)
U = CPCIe (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION : P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
4 = 4U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
3 = 300 - 399mm

❑ CARD ORIENTATION
H = Horizontal

❑ PSU INPUT
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2xHS, N+1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2xHS, N+1)
P = 90-230VAC(2 x HS, N+1)
Q = 90-230VAC(3 x HS, N+1)
R = 28VDC (Fixed)
S = 48VDC (3 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
4 = 400 - 499 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

System 39 E-Frame

ELMA
Your Solution Partner



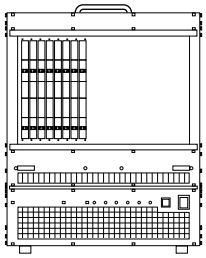
FEATURES:

- Modular, open frame, test and development platform
- Versions supporting 3U or 6U cards
- Full width versions (84T)
- Holds 6U x 160mm cards from front
- RTM mounting (rear transition module)
- Architectures PICMG: 2.0, 2.16, 2.17, EXP.0 backplanes (H.110 optional)
- Rear AC power input module with GND stud
- System monitoring with RS232 interface (optional)
- High performance cooling via front and rear mount fan trays
- Speed controlled fans with fan fail indication
- Durable, black powder coat finish
- Top handle for easy portability
- Front accessible test points and monitoring LEDs for: 3.3V,+-5V, +-12V, +- 24V & +-48V
- Fixed and plug mount PSU options: 90-230VAC, 24VDC, 48VDC

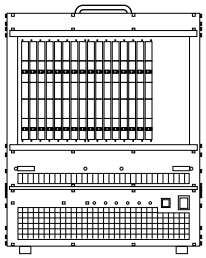
SCOPE OF SUPPLY

High quality, open frame, aluminum chassis consisting of: front card cage, RTM support, high performance PICMG 2.0, 2.16, EXP.0 backplane compliant backplane, front/rear fan trays, AC/DC power components, ESD jack, DC test points, DC LED indicators, Fan Fail LED and System monitor with Ethernet control (optional). Assembled, wired and tested.

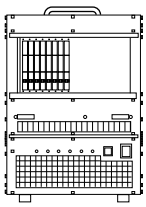
ORDERING INFORMATION



Description	Order Number
■ 12U H x 84HP W x 300 mm D ■ Vertical front mount 6U x160 mm cards ■ Rear I/O 6U x 80mm cards ■ 8-slot cPCI backplane, 6U, 2.0 ■ 350W: Plugin PSU ■ 90-264 VAC input voltage	39E08ADXC8Y3VG3X



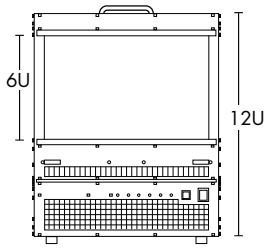
Description	Order Number
■ 12U H x 84HP x 300 mm ■ Vertical front mount 6U x 160mm cards ■ Rear I/O 6U x 80mm cards ■ 16 slot cPCI backplane, 6U, 2.0, w/H.110 ■ 90-264 VAC input voltage 800W: +3.3V@20A, +12V@4.2A, -12V@66.8A ■ 90-264 VAC input voltage	39E16CCXC8Y3VCHX



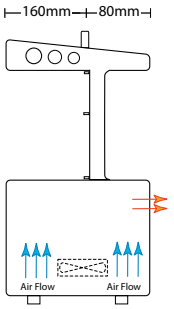
Description	Order Number
■ 9U H x 42HP x 300 mm ■ Vertical front mount 3U x 160mm cards ■ Rear I/O 3U x 80mm cards ■ 8-Slot cPCI backplane, 3U, 2.0 ■ 250W: CPCI Plugin PSU ■ 90-264 VAC input voltage	39E08BBX98YVG2X

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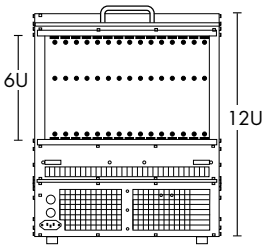
LINE DRAWINGS



Front View



Side View



Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, CE	

CUSTOM CONFIGURATIONS

39E ❑ ❑ ❑ ❑ ❑ ❑ ❑ Y 3 V ❑ ❑ ❑

❑❑ NUMBER OF SLOTS
00-21: Single BP; AY-YA: Split
02 = 2 slot
04 = 4 slot
06 = 6 slot
08 = 8 slot

❑ BP BARE BOARD
A = 6U Std, ATX, (RSS)
B = 3U Rev. 2.0
C = 6U H110
D = 6U (LSS)
E = 2.16, 1 x FS (no H.110)
F = 2.16, 2 x FS (no H.110)
H = 2.16, 2 x FS (w/ H.110)
I = 2.16, 1 x FS (w/ H.110)
J = 2.17, 1 x FS (no H.110
L = CPCIe (1 SS, 1 x type, 2 x type2)
M = 9U horiz. Rev 2.0
U = C EX (1 SS, 1 x type1, 2 x type2, 2 cPCI)
X = No BP installed
Z = Custom

❑ BP CONNECTOR
(CONFIGURATION: P1 - P5)
A = P1 & P2 S; No P3, P4, P5
B = P1 S, P2 L; No P3, P4, P5
C = P1, P2 & P4 S; P3 & P5 L
D = P1 & P2 S; P3, P4, P5 L
E = P1 S; P2, P3, P4, P5 L
F = P1 & P4 S; P2, P3, P5 L
G = P1 & P2 S; P3 L, no P4, P5
H = 2 x PC: P1, P2 & P4 S; P3 & P5 L
I = 2 x 47 PIN power
X = No connectors
Z = Custom

❑ DRIVES
1 = 1 x 3.5"
2 = 2 x 3.5"
3 = 1 x 5.25" HH
4 = 2 x 5.25" HH
5 = 4 x 5.25" HH
6 = 2 x 3.5", 1 x 5.25" HH
7 = 1 x 3.5", 2 x 5.25" HH
8 = 2 x 3.5", 2 x 5.25" HH
9 = 1 x 3.5", 1 x 5.25" HH
A = 1 x 2.5",1 x CDROM (SL)
B = 2 x 2.5"
X = Not Installed

❑ HEIGHT
9 = 9U
C = 12U

❑ WIDTH
8 = 84 T

❑ REAR I/O
Y = Yes

❑ DEPTH
3 = 300 - 399mm

❑ CARD ORIENTATION
V = Vertical

❑ PSU INPUT
A = 110/220VAC (Plug-in)
C = 90 - 230VAC (Fixed)
E = 110/220VAC (2 x HS, N + 1)
G = 90 - 230VAC (Plug-in)
H = 48VDC (Plug-in)
K = 48VDC (Fixed)
M = 48VDC (2 x HS, N + 1)
P = 90-230VAC(2 x HS, N+1)
X = No PSU

❑ PSU OUTPUT
(NOT ALL PSU COMBINATIONS AVAILABLE)
1 = 100 - 199 watts (w/o 3.3V)
2 = 200 - 299 watts (w/o 3.3V)
3 = 300 - 399 watts (w/o 3.3V)
4 = 400 - 499 watts (w/o 3.3V)
5 = 500 - 599 watts (w/o 3.3V)
6 = 600 - 699 watts (w/o 3.3V)
7 = 700 - 799 watts (w/o 3.3V)
8 = 800 - 899 watts (w/o 3.3V)
J = 1000 - 1099 watts (w 3.3V)
K = 1100 - 1199 watts (w 3.3V)
L = 1200 - 1299 watts (w 3.3V)
M = 1300 - 1399 watts (w 3.3V)
N = 1400 - 1499 watts (w 3.3V)
O = 1500 - 1599 watts (w 3.3V)
X = Not Installed

❑ VOLTAGE I/O
3 = 3.3V (Default)
5 = 5V
X = Not Installed

AdvancedTCA System Platforms, Overview

ELMA
Your Solution Partner



DESCRIPTION

AdvancedTCA is the trademark name of the architecture being described in the PICMG 3.0 specification. This specification is intended to define open architecture modular computing componets that can be quickly integrated to deploy high performances services solutions. The specification is focused on the definition of an architecture that can:



ADVANTAGES:

- Superior thermal performance
- Modular design enables faster time to market
- Designed to meet NEBS
- Wide range of chassis configurations
- Proven design concept reduces program risk (time and cost)
- Choice of backplane fabric topologies (star, dual star, mesh full & replicated)
- 40 Gbs backplane options

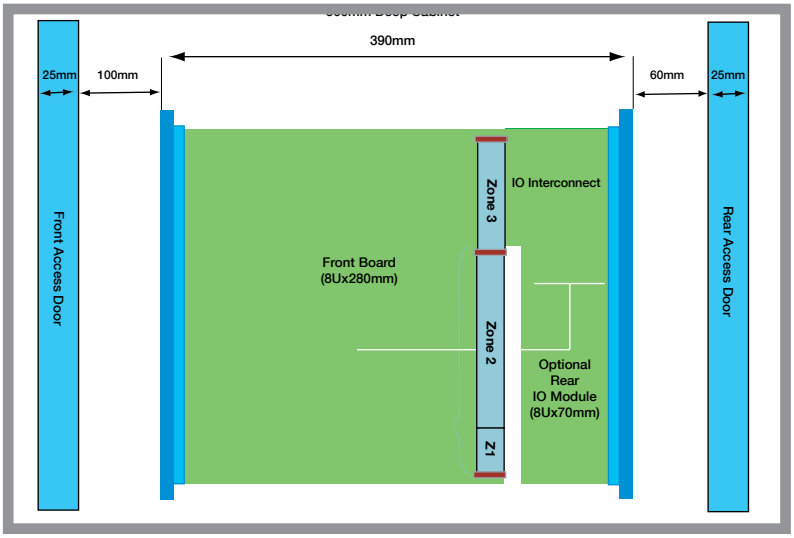


FEATURES:

- Compliant to PICMG 3.0
- 2U - 6U horizontal configuratios
- 13U vertical configurations
- 48 VDC and 90 - 235 VAC options
- Up to 300W slot cooling
- N+1 redundant power entry modules (PEMs)
- Optional, redundant shelf manager
- Designed to meet FCC & NEBS EMC requirements
- Application to edge core, transport and data center
- Application to wireless, wireline, and optical network elements
- Processors: digital signal processors (DSPs), network processors (NPs), storage, and input/output (I/O)







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