ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Ribbon / Performance Technologies / Ziatech ZT 6320* at our website: *Click HERE*

CompactPCI™

Preliminary Data Sheet

EXTREME BANDWIDTH

ZT 6320

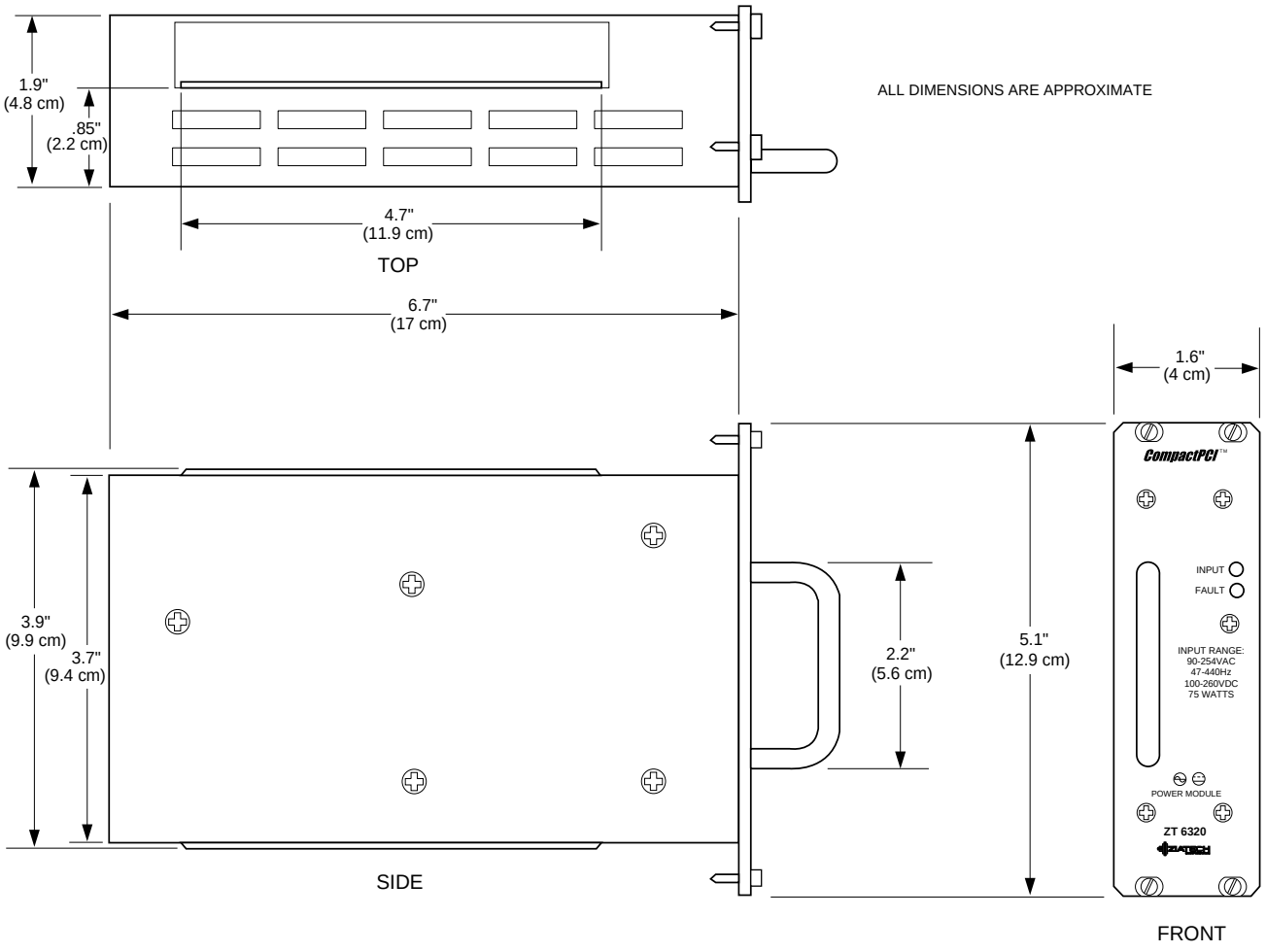
75 Watt Modular CompactPCI Power Supply

Pluggable Eurorack power supply for CompactPCI™ with multiple outputs capable of 75W over the input range of 90 and 254VAC.

The ZT 6320 power supply features a universal input and quad outputs in a modular DIN package compliant with the CompactPCI specification. Capable of supplying a total of 75W, the ZT 6320 is ideal for telecommunication, industrial equipment or other computer applications requiring a modular power supply.

The universal input voltage range is 90-254VAC or 100-260VDC.

Four inputs capable of providing a total of 75W are available for +5VDC, ±12VDC, and +3.3VDC. Each output is independently regulated.



- Eurorack-compatible module
- Drawer-style front panel handle
- DIN standard input/output connector
- Universal input
- Built-in EMI filter
- Remote sense on main output (+5V)
- Overvoltage protection
- Short circuit protection on all outputs
- Over temperature protection at 100° C
- Status LEDs indicate Input OK and Fault
- Approaching over temperature signal (DEG#)
- Fail signal (FAL#)

Functional Considerations

ZT 6320 Operation

The ZT 6320 75W power supply utilizes switching technology operating at 200 KHz to achieve its small size and large power output. An EMI filtered universal input automatically accepts AC inputs from 90 to 254 volts and DC inputs from 100 to 260 volts.

Status LEDs

Two status LED indicators visible from the front of the power supply are provided. The green “INPUT” LED indicates that the input voltage is present. The red “FAULT” LED indicates the status of the FAL# signal described below.

Remote Sense

A common remote sense on the main (+5V) power supply output detects the voltage at a load remote from the power supply, compensating for connector, back-plane, and wiring voltage drops. The 5S+ and 5S- signals should be connected at the positive and ground +5V load, respectively. These optional inputs need not be connected if remote sense is not required.

Inhibit/Enable Inputs

The INH# input signal will turn off the outputs when grounded. The enable (EN#) input must always be connected to ground.

System Notification

Two fault outputs are available for system notification. One output (DEG#) is an open collector, low true signal that indicates the internal temperature is approaching 90° C. If action does not reverse the internal temperature rise, at 100° C the supply will shut the outputs off.

The second output (FAL#) is an open collector, low true signal that indicates that the supply has been inhibited (INH#), the input voltage has been removed (power fail), or the main output is over voltage.

Specifications

Electrical

Input Specifications

Input Voltage Range: 90-254VAC/100-260VDC
Input Filter Type: ..... Common and Differential mode
Input Frequency Range ..... AC: 47 to 440 Hz;
..... DC: 0 Hz

Input Current
Maximum Continuous: ..... 1.1A @ 115VAC
Cold Start, Surge Maximum: ..... 120VAC ≤ 20A
..... 254VAC ≤ 38A

Output Specifications

Total Voltage Accuracy (load, cross and line regulation across temperature):
+5V (2A minimum) ..... ±3%
+12V ..... ±5%
-12V ..... ±5%
+3.3V ..... ±5%
Total Output Power (max. continuous @ 30°C): 75W

Current @ +5V (2A minimum) 10A
Current @ +12V 1A
Current @ -12V 1A
Current @ +3.3V 3A

Ripple and Noise (measured at full load with 20 MHz bandwidth and 22 µF capacitor at load):
+5V ..... <80mV P-P
+12V ..... <50mV P-P
-12V ..... <50mV P-P
+3.3V ..... <50mV P-P
Short Circuit Protection: ..... Auto recovery
Overvoltage Protection (+5V): ..... 6 to 7VDC
Turn-On Time: 100ms
Hold-Up Time: ..... 6ms @ 90V input (full load)

General Specifications

Efficiency: ..... > 70% at 20% to 80% max. load
Switching Frequency: ..... 200 KHz

Environmental Specifications

Environmental	
Operating Temperature	0° to 70° Celsius
Storage Temperature	-40° to +85° Celsius
Non-Condensing Relative Humidity	less than 95% at 40° Celsius

Overtemp Shutdown: ..... yes, with output shutdown
Cooling Requirement[1]: ..... See Figure 1
Shock and Vibration (Pending): MIL-STD-810E
Vibration, Operating: . 20 to 2000 Hz @ 0.04 g^2/Hz
Vibration, Non-Operating: 20 to 2000 Hz @ 0.04g^2/Hz
Shock, Operating: ..... 30g @ 11ms
Shock, Non-Operating: ..... 50g @ 6ms
Altitude[2]: ..... 21,000 feet (6.4Km)
Weight: ..... 2.48 lbs (1.12Kg)

Note: [1] Cooling requirements at sea level.
[2] Derate output load in Figure 1 by 15% per 6,000 ft.

Agency Approvals (Pending)[3]

- UL 1950, CSA 950, TUV / VDE EN60950
- Complies with FCC and VDE “Class B” EMI/RFI requirements, both conducted and radiated with >3db margin
- Complies with IEEE 587, ANSI Std. C62.41 surge suppression
- Leakage current is <1.5mA @ 120VAC, 60 Hz and < 3mA @ 240VAC, 50 Hz

Note: [3] Always connect chassis ground (CG) on the supply to earth ground through a low impedance path.

Mechanical

See front page for more information.

Reliability

- MTBF: TBD
- MTTR: five minutes (based on module replacement)

Ordering Information

ZT 6320	75W Modular CompactPCI Power Supply

Ziatech Compatible Enclosures

ZT 6200	CompactPCI enclosure. 8-slots, 3U, single power supply location.

All products are shipped FOB San Luis Obispo, CA, USA. OEM discounts are available for quantity purchases. Contact Ziatech for additional information.

Warranty – Five years with an optional five-year extension. Two year warranty on fans. Call Ziatech for full warranty information.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

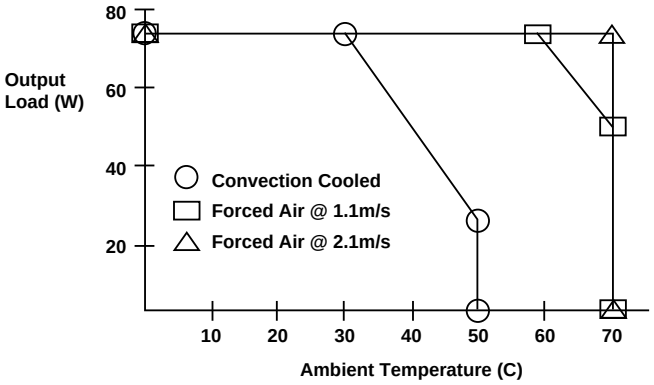


Figure 1. Air Flow

Pin # (5)	Staging (6)	Mnemonic	Description
Column A			
A13	EL	SP	Spare (do not connect)
A14	EL	INH#	Inhibit Signal
A15	EL	Reserved	Reserved
A16	EL	5S-	5V Sense -
A17	EL	5S+	5V Sense +
A18	EL	3.3V	+3.3VDC
A19	EL	+12V	+12VDC
A20	EL	-12V	-12VDC
Column B			
B2	SL	ACL	AC Line
B5	SL	ACN	AC Neutral
B8	–	–	No Pin Loaded
B11	EL	CG(7)	Chassis Ground
B13–18	SL	3.3V	+3.3VDC
B19	SL	+12V	+12VDC
B20	SL	-12V	-12VDC
B22	EL	5V	+5VDC
B25	EL	GND	Ground
B28	–	–	No Pin Loaded
B31	–	–	No Pin Loaded
Column C			
C13	SL	EN#	Enable Signal
C14	SL	DEG#	Temp. Warning Signal
C15	SL	FAL#	Supply Fail Signal
C16–18	SL	3.3V	+3.3VDC
C19	SL	+12V	+12VDC
C20	SL	-12V	-12VDC

Figure 2. Pin Numbers

Notes: (4) Pin numbers illustrated are the pin view of the female mating connector a mating connector is ERNI part #914374.
(5) Mating pin numbers on power supply connector.
(6) EL is an Extra Length pin. SL is a Standard Length pin.
(7) CG must be connected to earth ground.

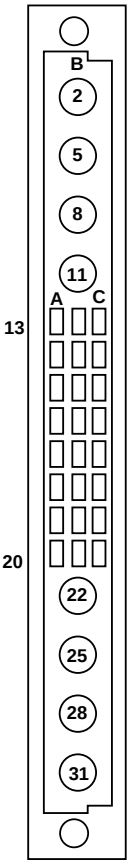


Figure 3. Mating Connector (top view)

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP