

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.

Visit our website - *Click HERE*

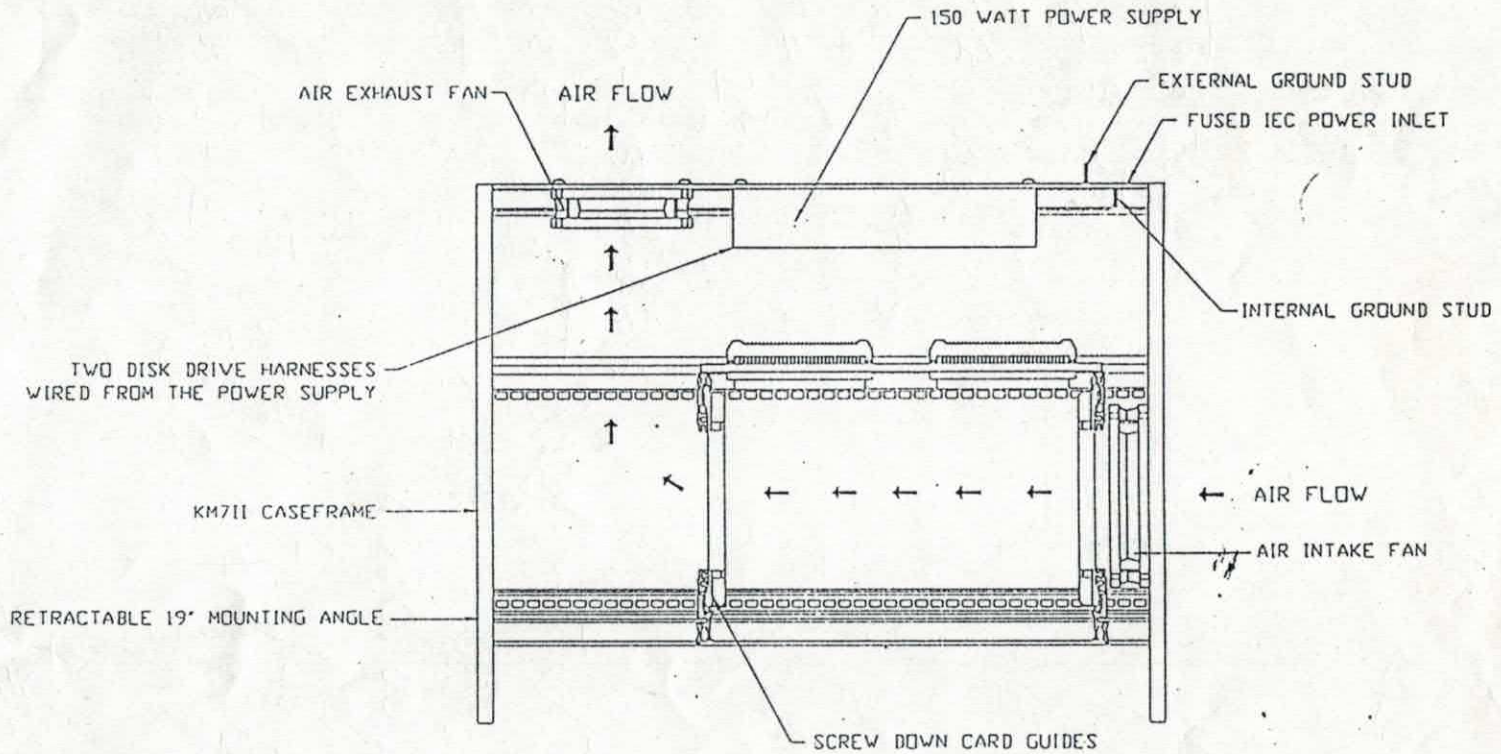
C-LINE #62027
CLEAR TOPPER

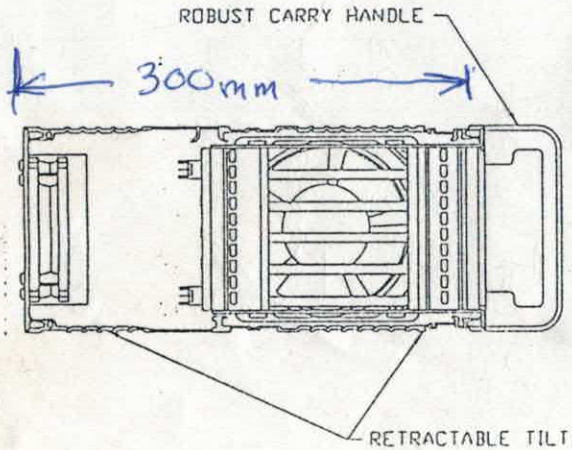
$1 1520

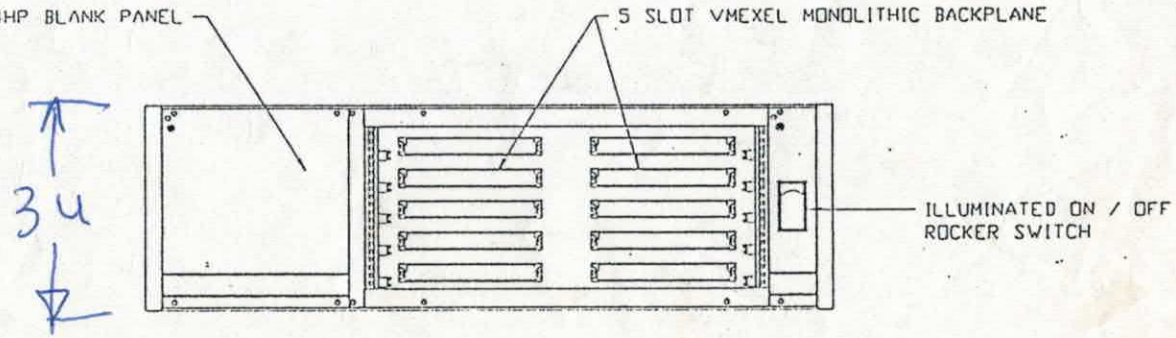
CATEGORY #1 – D: 3u x 19.000" KM7II CASEFRAME
VERO ELECTRONICS, INC. MICRORACK HANDBOOK
ASSEMBLY FEATURE DRAWING FOR P/N 224-606926

VERO
VERO ELECTRONICS

DATE: 9/9/96







VMEbus System
Type 5/5 WS 3U - KM7

The VMEbus KM7 System is a fully engineered unit ready to run, bench top development unit which can take up to five standard VMEbus boards.

Provision has been made for Winchester and floppy disk mass storage in order that a working system may be configured with maximum convenience. The unit comprises a KM7 caseframe, one 5 slot backplane mounted horizontally with "off-board" termination, an open-frame, switched mode power supply and substantial cooling facilities. The unit can easily be modified for rack mounting.

Front Panel Configuration

A 3U × 54 HP removable subrack has been used for the horizontal mounting of the double height VME Eurocard boards. Five standard boards (6U × 4 HP × 160mm deep) can easily be accommodated while special filler panels, two horizontal and one vertical, finish this area off giving it an attractive appearance. This subrack, including a 5 slot J1 backplane mounted horizontally, may be detached from the System by simply removing the four front panel screws and disconnecting the power wiring from the backplane. Two cut-outs in the top panel of the subrack allow for ribbon cable routing from the board front panels to the inside of the unit.

An area of 3U × 24 HP is available for mass storage. Two 3½" disk drives may be mounted horizontally using the standard BICC-VERO disk mounting kit supplied. Wiring to standard connectors is provided for two disk drive units, one Winchester and one floppy, enabling them to be fitted into the System with minimum inconvenience. An identification label gives wiring details for these units.

A 3U × 6 HP front panel is provided, on which is mounted the illuminated and anti-surge protected power on/off switch.

Supply Voltage

The System is capable of being operated from either a 240V a.c. 50 Hz or a 110V a.c. 60 Hz power supply and is available under two separate order codes depending on the supply voltage required. The input power supply voltage can easily be changed by the user via a two-pin jumper link which is located inside the power supply unit.

A three-pin IEC power input socket which is filtered and protected with an integral 3, 15 Amp anti-surge fuse is mounted on the rear panel. An IEC power outlet plus is also provided to supply power to a peripheral device or VDU and is wired to ensure filtered power supply. All supply power is controlled by the front panel power on/off switch.

A separate power cord is provided to connect the System to the a.c. power supply.

The System has a star ground system for effective continuity. The top and bottom extrusions are ground bonded with special screws to the case side plates, which in turn are wired to the star point along with the rear panel.

Power Supply Unit

Power for the System is provided by a 150 W continuously rated open-frame, switched mode power supply, type SPL 150-4100, which is fully wired for immediate use. It is mounted onto the detachable rear panel of the caseframe affording easy accessibility for maintenance.

The power supply may be operated from either a 240V a.c. 50 Hz or a 110V a.c. 60 Hz power supply. A two-pin jumper link is provided in the power supply which needs to be correctly set depending on the power supply to be used. This jumper link is factory set and a label on the rear panel of the System and on the power supply shield indicates the power input voltage selected.

The user may change the selected input voltage for himself. This is easily done by changing the jumper link position with a pair of long nose pliers.

To do this, access is gained by first removing the power supply shield.

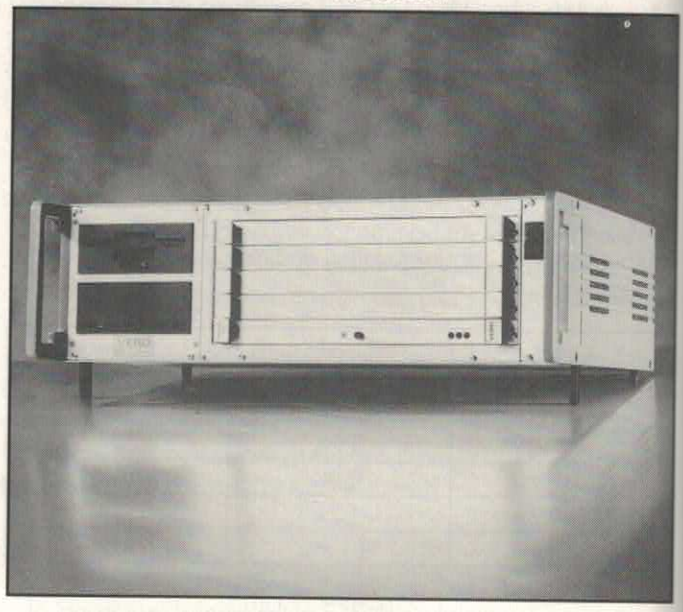
A second label on the power supply shield indicates the correct position of the two-pin jumper link for the required power input voltage setting.

An aluminum safety shield is provided to help reduce power interference and act as a cooling deflector around the power supply unit.

The a.c. power is connected to the a.c. input terminal block of the SPL 150 power supply unit in the following manner.

Position 1	–	Line
Position 2	–	Neutral
Position 3	–	Ground

Output voltages, load regulation, maximum currents, minimum currents and terminal block positions for this unit are listed in the table below.



Power Supply Unit Specifications

Output Voltage	Load Regulation	Maximum Current	Minimum Current	Terminal Block Position	Notes
+5V	±1.0%	15A	3.0A	1,2,3	A
+12V	±3.0%	5/8PK*	1.0A	12	C
+12V	±1.0%	1.5A	0	10	B
−12V	±1.0%	1.0A	0	8	B
Ground	-	-	-	4,5,6,7,9,11	-

Notes:

This SPL 150 power supply is a VDE Class 1 device and thus requires the use of a ground lead, properly fastened to ground. This is incorporated in the System wiring.

Power supply overall size:
203,2 × 101,6 × 53,34mm.

A. Voltage level adjustable from 4.75V to over voltage trip p,oint.
B. Fully regulated output, voltage fixed (3 terminal regulator).
C. Quasi-regulated output.

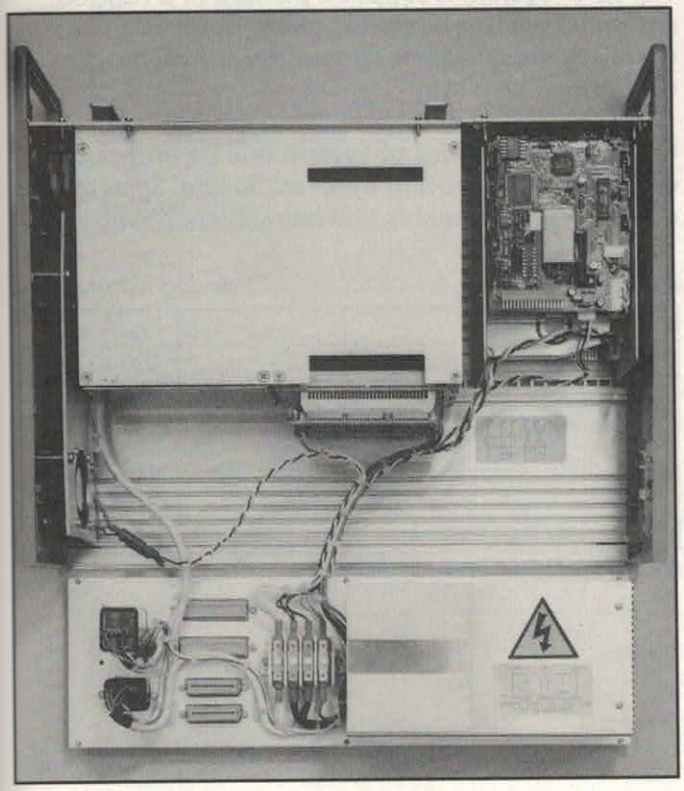
* PEAK CURRENT is defined with a 15 second duration (maximum). 10% duty cycle maximum.

VMEbus Backplanes

The System is fitted with a BICC-VERO Electronics high performance enhanced VMEbus backplane. A 5 slot J1 is supplied for 16 bit use while the J2 area is left free for application customizing and I/O connections. It has 'off-board' termination and is fully wired up for immediate use with all power connections being made via 6,3mm tab connectors for ease of maintenance. A J2 backplane with 6.3mm tab power pick-up connectors can be easily added to this System unit by the user. Power cabling with mating connectors is provided in order that a J2 backplane may be fitted with minimum inconvenience.

The J2 area is fitted with a blanking panel in order to improve the cooling and air flow through the unit when a J2 is not fitted. This blank panel has an IEC 603-2 (DIN 41612) connector on it in slot position '1' to allow through connection to the P2 connector of the VMEbus board mounted in slot position '1'. It is essential that this blank panel or a 5 slot J2 is fitted into the unit at all times to ensure efficient cooling.

Note:
The ten 0.1 inch spacing, red jumper links on the rear of the J1 backplane should be removed before system operation. They are only required to jumper the "bus grant" and "interrupt acknowledge" signals when an intermediate VME board position is left vacant.



Cooling

Two miniature fans are located on one side of the caseframe to provide forced air cooling. Both of these fans blow air horizontally over the VME board positions through the disk drives and over the power supply with the exhaust air being expelled through vents in the opposite side panel. These miniature fans are 12V d.c. working and are powered from the internal switched mode power supply. The top and bottom panels of the board mounting subrack provides ducting for the air flow over the VME board positions and thus giving good efficient cooling in this area.

A foam air filter is provided in the side of the caseframe for each miniature fan in order to filter the incoming air flow. These air filters may be removed, cleaned and replaced as necessary.

Cooling vents are positioned in the side panels only. This arrangement, along with the internal layout of the unit, gives extremely good cooling efficiency for a unit of this size and compactness. It also features positive pressurization of the disk drive area in order to minimize the ingress of dust into the Winchester and floppy disk units.

KM7 Caseframe Enclosure

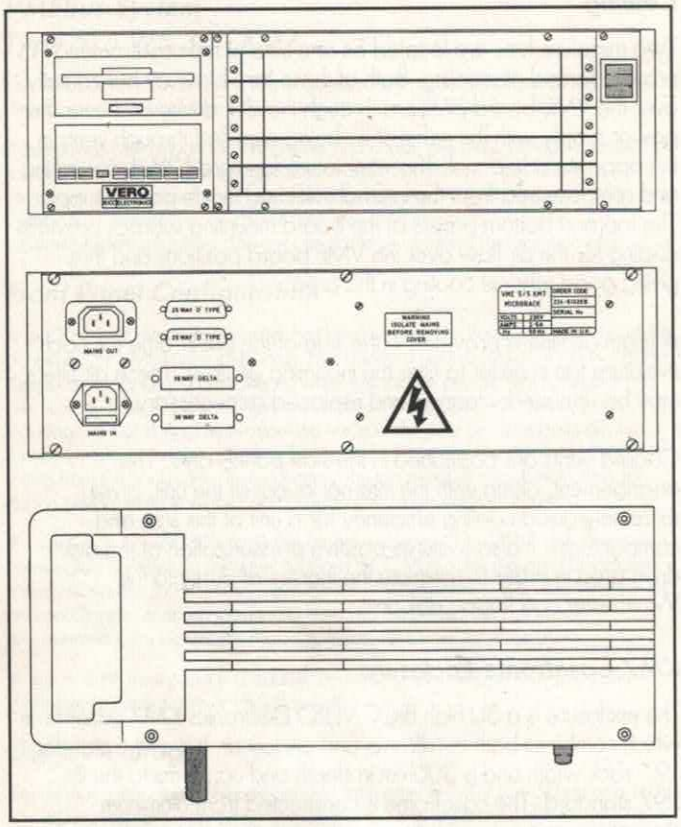
The enclosure is a 3U high BICC-VERO Electronics KM7 caseframe which combines both cardframe and enclosure. It is of the standard 19" rack width and is 300mm in depth and conforms to the IEC 297 standard. The caseframe is constructed from aluminum diecastings and extrusions to provide exceptional strength and thus suitable for a wide range of applications. It is compatible with the KM6 range of accessories.

The diecast aluminum alloy (LM24) side panels are finished in textured epoxy powder coated paint in electron gray. The top and bottom panels are each made from an aluminum alloy (E6) extrusion which is etched and clear anodized to give a polished aluminum effect. Two infill panels made from ABS electron gray are also incorporated in to the top and bottom extrusions to give an enhanced appearance and an overall attractive finish to the unit.

The diecast side panels incorporate carrying handles which protrude forward from the caseframe by 55mm.

The unit may be placed flat onto a surface or it may be tilted using the four multi-position retractable feet. When used in the high raised position the front of the unit is raised some 35mm giving a tilt to the unit that enhances visibility and access to the front panel controls.

The rear panel of the unit may easily be detached from the caseframe by removing the six knurled thumb screws. This affords exceptionally good access to the interior of the unit, particularly the power supply unit, the rear of the J1 backplane and the J2 area for I/O connections.



The power supply is fitted to the rear panel and is wired directly into the unit.
The d.c. wiring for disk drives and fans is routed through a junction block located on the rear panel.

Incorporated into the rear panel are four connector cut-outs, two for 25 position D type connectors and two for Centronics Delta connectors for I/O use. These connectors are not supplied with the System but may easily be fitted by the user. Individual cover plates are supplied to cover these cut-out positions when not in use.

Also positioned on the rear panel is the power IEC three-pin input socket and a power output plug to supply a peripheral device or VDU.

Color:
Diecast side panel
-Electron gray
Top & bottom infill panels
-Electron gray
Top & bottom extrusions
-Etched and clear anodized
Other extrusions
-Etched and clear anodized

Rack Mounting

The KM7 System may easily be modified for rack mounting. The simple addition of two 3U angle plates to the side panels of the unit, each using two 3.5mm Allen head screws for securing. Special recesses in the diecast side panels easily accommodates these angle plates. This rack mounting kit is available as an accessory order code **124-34253L.**

The overall dimensions of the KM7 caseframe are no greater than a standard 3U by 19" cardframe. The complete System can thus be easily fitted into a standard 3U high enclosure or rack assembly that is at least 315mm deep.

Ordering Information

The KM7 System may be ordered under two different order codes depending on the a.c. power supply voltage required for operation.

A separate power cord is provided with order code **224-61029B** to connect this System to the a.c. power supply.

The KM7 System is NOT supplied with any disk drives, VME boards or blank front panels.

The KM7 System is supplied packed in a rugged carton which has been designed for reuse, enabling the customer to use it for the dispatch of configured systems.

Other configurations of System will be introduced as the VMebus market evolves. Special Systems to customer requirements will be actively considered.

KM7 System *Ordering information*

Description	A.C. power supply	Order code
System 5/5 WS 3U KM7	240V 50 Hz	**224-61029B**
System 5/5 WS 3U KM7	110V 60 Hz	**224-63600F**
3½" Disk Drive Mounting Kit	-	**174-54400D**
Blank Front Panel 4HP × 6U	-	**174-38200D**
Rack Mounting Kit 3U	-	**124-34253L**
5 Slot J2 Backplane	-	**188-59003K**

For further information contact BICC-VERO ELECTRONICS

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