

## VAX Qbus Replacement System

### *Real-Time VAX Replacement*

**NEW!**

### Introducing the NuVAX 2200

Now you can upgrade your real-time application with a modern, easy-to-maintain system that allows you to preserve your investment in hardware and software while improving performance and lowering operating costs.

The NuVAX 2200 consists of a brand new Qbus chassis containing the NuVAX 1200 engine that replaces your VAX CPU, memory, and mass storage devices.

Your current VAX disk images can be transferred onto a NuVAX system to run your existing operating system and applications without modification.

You can move up to six of your specialized Qbus controllers into the NuVAX system or replace them with our new re-designed controllers. We offer state-of-the-art Qbus controllers for DRQ3B, DRV11-J, DRV11-WA and IEQ11 interface requirements.

#### **Eliminate**

- *Obsolete disks and tapes*
- *High maintenance costs*
- *Aging, unreliable CPU and memory*

#### **Preserve**

- *Existing VAX system and application software*
- *Standard and custom Qbus I/O interfaces*
- *Cabinets and cables*

#### **Embedded Standard I/O**

*Reduces power and space and replaces these old devices:*

- *DELQA Ethernet port*
- *RQDX2, RQDX3 and KDA50 drives*
- *TK50 / 70 tape drive*
- *DLV11 serial console port*
- *DLV11 serial terminal / printer port*

#### **Increase Performance**

- *Run time performance up to 26 VUPS*
- *Significantly reduced boot time*
- *High performance disk and memory*

#### **VAX Compatibility**

- *Real-time applications supported*
- *Software compatible with existing applications*
- *Supports both VMS and VAXe/n OS*
- *Qbus compatible*
- *MDM diagnostic compatible*


#### **Qbus Support**

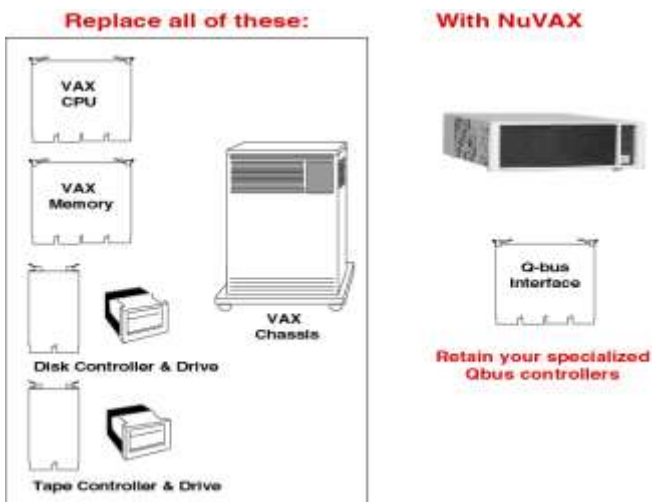
- *Supports all Qbus devices*
- *Follows all Qbus rules and specifications*
- *Both Qbus PIO and DMA data transfers are supported as well as all four Qbus interrupts*
- *Qbus PIO and DMA transfers occur at maximum Qbus speeds; throughput is limited only by the Qbus device(s)*



## Specifications

Physical	
Dimensions	13.4cm x 48.3cm x 43.2cm (5.25" x 19" x 17")
VAX Compatibility	
Processors Supported	MicroVAX II, MicroVAX 3300, 3400, 3500, 3600, 3800, 3900, 4100 and 4200
MicroVAX Memory	Up to 64MB Up to 512MB for model 4000
Hard Drive	Solid state, 57GB usable space for all virtual tapes and disks.
Disks Emulated	Up to two virtual MSCP controllers of type RQDX3, RQDX2 and / or KDA50. Each controller can have four logical units of 32MB up to 8GB each.
Tapes Emulated	Up to two TMSCP controllers of type TQK50 and / or TQK70. Tape and disk storage competes for the available usable hard drive space.
Ethernet	
DELQA	10/100 port
Manager (MGR)	Manager port
RS232 Serial Ports	
Speeds	Standard speeds up to 19200 baud
Console	Console port
Terminal	User terminal/serial printer
Miscellaneous	
USB	4 ports, reserved for system management and license key
VGA	Reserved for system management
Battery	User replaceable, 3V lithium; Battery life 5 years
Audio Alarm	Power-on self test error beep

Front Panel LEDs	
ACT - Green	Software activity
NET - Red	Network activity
QBA - Green	Qbus activity
ERR - Red	Hardware failure
Power	
Power supply	120VAC – 240VAC, 50/60 Hz
+5V	35 amps
+12V	5 amps
-12V	5 amps
Qbus	
dc Loading	1 dc load
ac Loading	1 ac load
Drive Capability	19 additional dc loads
Quad-width slots	6 available
I/O Panels	3 B-size inserts, 3 A-size inserts
Environment	
MTBF	42,500 hours
VAX/VMS License	Qualifies for transfer
Operating Conditions	
Temperature	10° to 32° C (50° to 90° F)
Relative Humidity	20% to 80% non-condensing
Storage Conditions	
Temperature	-40° to 60° C (-40° to 140° F)
Relative Humidity	10% to 90% non-condensing
Console Panel (CPX-1007-A)	
	B size bulkhead panel with easy access to Console and Manager ports
Dimensions	6.3 cm by 8.1 cm by 0.12 cm
Attached Cables	36-inch cables provide connection to the Console and Manager ports.
Console Accessory Cables	
Can be used in place of the Console Panel	
9-Pin Cable	18-inch DE9-S to DE9-P for DEC signal/connector compatibility
25-pin Cable	18-inch DE9-S to DB25-P for DEC connector compatibility



## Ordering Information

Part Number	Description
MXV-2200-AA	Rack-mount NuVAX 2200 system with Console Panel, accessory cables and installation manual on CD.
MXV-2200-AS	Rack-mount NuVAX 2200 system with Console Panel. License key and accessory cables not included.

**Open backplane view**



**Back of chassis, I/O panel view**

