

NEW!

PDP-11 Qbus Replacement System

Real-Time PDP-11 Replacement



Introducing the NuPDP 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 NuPDP 2200 consists of a brand new Qbus chassis containing the NuPDP 1200 engine that replaces your PDP-11 CPU, memory, and mass storage devices.

Your current PDP-11 disk images can be transferred onto a NuPDP system to run your existing operating system and applications without modification.

You can move up to six of your specialized Qbus controllers into the NuPDP 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 PDP-11 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:

- RLV11, RLV12, QDA50, RQDX3, RQZX1, RXV11, RX21 drives
- TK50 / 70 tape drive
- DLV11 serial console port
- DLV11 serial terminal / printer port

Increase Performance

- Up to 25 times faster than a PDP-11
- Significantly reduced boot time
- High performance disk and memory

PDP-11 Compatibility

- Real-time applications supported
- Software compatible with existing applications
- Supports both RSX-11 and RT11 OS
- Qbus 18/22 bit compatible
- XXDP 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	Standard quad-width board, 26.7 cm by 21.3 cm. Requires 3 quad-width Qbus slots to install.
PDP-11 Compatibility	
Processors Supported	PDP-11/23, PDP-11/53, PDP-11/73, PDP-11/83, PDP-11/93
PDP-11 Memory	4MB
Hard Drive	Solid state, 57GB usable space for all virtual disks and tapes.
Disks Emulated	RLV11, RLV12, QDA50, RQDX3, RQZX1, RXV11, RX21
Tape Drives Emulated	TU58, TK25, TQK50, TQK70
Ethernet	
DELQA	Reserved
Manager (MGR)	Reserved for system management
RS232 Serial Ports	
Speeds	110, 150, 300, 600, 1200, 2400, 4800, 9600 baud
Console	Console port
Terminal	User terminal/serial printer
Miscellaneous	
USB	4 ports, reserved for system management
VGA	Reserved for system management
Battery	User replaceable, 3V lithium; Battery life 5 years
Audio Alarm	Power-on self-test error beep codes
Front Panel LEDs	
ACT - Green	Software activity (reserved)
NET - Red	Network activity
QBA - Green	Qbus activity
ERR - Red	Hardware failure

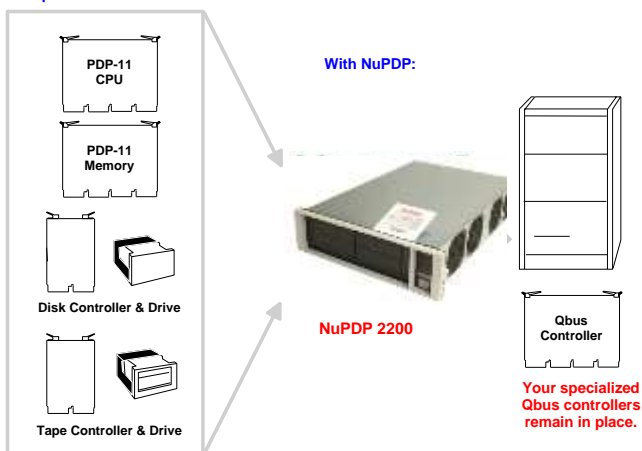
Power	
Power Supply	120VAC – 240VAC, 50/60 Hz
+5V	35 amps
+12V	5 amps
-12V	5 amps
Power Required by PDQ-1200 CPU	
+5.0 volts	2.8 amps
+12 volts	Not required
Qbus	
dc Loading	1 dc load
ac Loading	1 ac load
Drive Capability	19 additional dc loads
Environment	
MTBF	80,000 hours
Operating Conditions	
Temperature	10° to 50° C (50° to 120° F)
Relative Humidity	20% to 80% non-condensing
Storage Conditions	
Temperature	-40° to 60° C (-40° to 140° F)
Relative Humidity	5% to 90% non-condensing

Console Accessory Cables	
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
PDQ-2200-AA	Rack-mount NuVAX 2200 system with accessory cables and manual on CD
PLEASE NOTE: A spare system not offered.	

Replace all of these:



Open Backplane View