



QP option modules are plug-and-play replacements for popular legacy Digital interfaces. Option modules install in a PDQ-3200 system and offer the same functionality as the Digital equivalent, thus allowing users to migrate from their Qbus systems to 3200 systems and maintain their investment in software and user equipment.



New Technology

- *State-of-the-art design*
- *New equipment, new warranty*



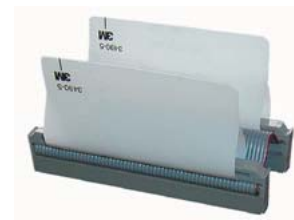
Software Compatible

- *Application compatible*
- *Diagnostic compatible*



Hardware Compatible

- *Signal compatible*
- *Connector & switch compatible*
- *Use existing user cables and equipment*




QP Interconnect


QP option modules install into a single slot and connect to the NuPDP_o bus adapter and, optionally, other QP option modules by way of QP interconnects.

Digital Module	Digital Interface	Part Number
M3104	DHV11	CCI1016AA
M3106	DZQ11	CCI1016AA
M3107	DHQ11	CCI1016AA
M3119	CXY08	CCI1016AA
M7504	DEQNA	CEI-1000-A
M7651	DRV11-WA	DQP-1100-AA
M7651 + M9056	DRV11-WA + Long Line	DQP-1100 AB
M7658	DRQ3B	DQP-1500-AA
M7941	DRV11	DQP-1300-AA
M8049	DRV11-J	DQP-1400-AA
M8634	IEQ11-A	DQP-3100-AA


DQP-1100	
DEC Module	M7651 + M9056 for differential
Interface Name	DRV11-WA
Function	16-bit parallel user interface for PIO and DMA transfers between a Qbus system and external equipment. It can also serve as a link between a Qbus system and another computer with a DRV11-WA or DR11-W compatible interface. 22-bit addressing capability and permits data transfers at rates up to 400 Kbps in burst mode
Power	0.5 amps @ +5V, 0.3 amps @ +3.3V
User Connection	Two 40-pin connectors, two 60-pin connectors for differential
Part No: DQP-1100-AA	Standard package includes controller, QP interconnect, adapter panel, adapter cable, and test cable.
Part No: DQP-1100-AB	Differential Package includes controller, QP interconnect, differential adapter panel, adapter cable, and test cable.




DQP-1300	
DEC Module	M7941
Interface Name	DRV11
Function	16-bit parallel user interface for transfers between a Qbus system and parallel line TTL-based user equipment. It can also serve as a link between a Qbus system and another computer with a DRV11 or DR11-C compatible interface.
Power	0.5 amps @ +5V, 0.3 amps @ +3.3V
User Connection	Two 40-pin connectors
Part No: DQP-1300-AA	Standard package includes controller, QP interconnect, adapter panel, adapter cable, and test cable.




DQP-1400	
DEC Module	M8049
Interface Name	DRV11-J
Function	Parallel interface that provides 64 input/output data lines. Interrupt ability up to 16 lines with programmable interrupt vectors and program selection of fixed or rotating interrupt priority.
Power	0.5 amps @ +5V, 0.3 amps @ +3.3V
User Connection	Two 50-pin connectors
Part No: DQP-1400-AA	Includes controller, QP interconnect, adapter panel, adapter cable, and test cable.




DQP-1500	
DEC Module	M7658
Interface Name	DRQ3B
Function	High performance 16-bit parallel interface designed for real-time data collection or for high-speed inter-processor communications. It provides PIO and DMA transfers between a Qbus system and external equipment at transfer rates of up to 1.3 MHz of 16-bit words.
Power	1 amp @ +5V, 0.3 amps @ +3.3V
User Connection	Two 50-pin connectors
Part No: DQP-1500-AA	Standard package includes controller, QP interconnect, adapter panel, adapter cable, and test cable.




DQP-3100	
DEC Module	M8634
Interface Name	IEQ11
Function	DMA controller that interfaces a Qbus system to two independent channels that are compatible with both the IEC and IEEE instrument buses. The instrument buses conform to both the European Standard IEC 625-1 and the U. S. Standard IEEE 488.1-1987. Each instrument bus can have up to fifteen devices, including the DQP-3100, in a sequential configuration.
Power	0.5 amps @ +5V, 0.3 amps @ +3.3V
User Connection	IEEE IEEE-488 standard 24-pin connector IEC IEC-625 standard 25-pin connector One connector per channel.
Part No: DQP-3100-AA	Includes controller, QP interconnect, and IEC to IEEE488 cables. Requires two rear-panel exit slots for two-line operation



CCI1016	
DEC Module	M3104, M3106, M3107, M3119
Interface Name	DHV11, DZQ11, DHQ11, CXY08
Function	16-port RS232/RS422 asynchronous communication controller with external DB25 user connection.
Power	0.6 amps @ +5V
User Connection	Sixteen DB25-F connectors
Line Parameters	Data bits: 5, 6, 7, 8 Stop bits: 1, 1.5, 2 Parity: Odd, even, or no parity Baud Rates: 50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2000, 2400, 4800, 7200, 9600, 19.2K, 38.4K bps.
Part No: CCI1016AA	Standard package includes controller, distribution panel, interconnect cable, and test cables.



CEI-1000	
DEC Module	M7504
Interface Name	DEQNA
Function	Single-port Ethernet controller that enables higher-level software protocols, such as DECnet, to communicate over an Ethernet network. The CEI-1000 conforms with the IEEE Specification 802.3 for Local Area Networks
Power	1 amp @ +5V
User Connection	Standard RJ45 Ethernet connector
Part No: CEI-1000-A	PCI Ethernet controller.



AQP-2302	
Function	External Unibus adapter allows Unibus controllers in an external chassis to be accessed from the NuPDP α system.
Power	2.5 amps @ +5V, 0.5 amps @ +3.3V
Part No: AQP-2302-AA	Includes controller, QP interconnect, Unibus module, adapter panel and adapter cables.

