



DNP 3.0 Master/Slave Communication Module PTQ-DNPQ

The PTQ-DNP module is the ideal solution for many applications where DNP 3.0 Master/Slave protocol connectivity must be added to a Quantum or Unity system.

The DNP solution is designed to address the expanding interest in the DNP 3.0 protocol. The protocol was developed for the Power Utility industry and is recommended by the IEEE for RTU-IED communication applications. Additional industrial applications are quickly arising in the Water/Wastewater and Oil and Gas industries.

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DNP 3.0 Master/Slave Communication Module

PTQ-DNPQ

The DNP 3.0 Master/Slave Communication Module is a single slot, backplane compatible DNP 3.0 interface solution for the Schneider Electric Quantum or Unity platform. This module provides highly configurable support of both DNP 3.0 Master and Slave implementations.

Features and Benefits

The module supports DNP Subset Level 2 features and some of the Level 3 features allowing the many SCADA and field devices supporting the DNP protocol to be integrated into the Quantum or Unity platform. The module acts as an input/output module between the DNP network and the Modicon backplane. The data transfer from the Quantum or Unity processor is asynchronous from the actions on the DNP network. Databases are user defined and stored in the module to hold the data required by the protocol.

General Specifications

- Single Slot – Quantum backplane compatible
- The module is recognized as an Options module and has access to PLC memory for data transfer
- Configuration data is stored in non-volatile memory in the ProTalk module
- Up to six modules can be placed in a rack
- Local rack – The module must be placed in the same rack as processor.
- Compatible with common Quantum / Unity programming tools.
- Quantum data types supported: 0x, 1x, 3x, 4x
- High speed data transfer across backplane provides quick data update times.
- Sample function blocks available.

Hardware Specifications

Specification	Description
Backplane Current Load	800 mA @ 5 V
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5 to 95% (non-condensing)

