



DF1 Half/Full Duplex Master/Slave Communication Module

PTQ-DFCM

The DF1 Master/Slave Communication Module is a Quantum backplane compatible module that allows Modicon Quantum processors to interface easily with DF1 protocol compatible devices and hosts. Devices commonly supporting the protocol include Rockwell Automation PLCs and power monitoring equipment, as well as several other third party devices in the marketplace.

Features and Benefits

The module has two serial ports supporting the DF1 protocol, with each port user configurable to act as a Master or as a Slave. Data transfer between the module and the Quantum processor is asynchronous to the DF1 network, with the module's internal database being used to exchange data between the Quantum processor and the DF1 network.

The PTQ-DFCM module is a powerful communication interface for Quantum platform processors. Developed under license from Schneider Electric, the module incorporates proprietary backplane technology that enables powerful data access to the Quantum processor.

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	Value
Backplane Current Load	800 mA @ 5 V
Operating Temperature	0 to 60°C (32 to 140°F)

DF1 Half/Full Duplex Master/Slave Communication Interface Module

PTQ-DFCM

The PTQ-DFCM module is the ideal solution for many applications where DF1 Master/Slave protocol connectivity must be added to a Quantum system. The PTQ-DFCM module can be found in many industrial sectors and in the following applications:

- Foreign device data concentrator
- SCADA System Pipelines and offshore platforms
- Food processing
- Mining
- Pulp and paper

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