Bardac Communication Module
MVI71-BDW

The MVI71 Bardac Drive module incorporates a powerful library of drive control function blocks for a wide range of applications. The Bardac drive protocol uses UDP over Ethernet to provide robust connectivity between drives, PLCs, operator stations, remote I/O and SCADA systems.

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Bardac Communication Module

MVI71-BDW

The MVI71 Bardac Drive Interface Module allows Rockwell Automation PLC I/O compatible processors to interface easily with Bardac drive.web devices.

Features and Benefits

The MVI71-BDW module acts as a client collecting and controlling data in a Bardac drive.web compatible device. Four independent clients are contained in the module to interface with Bardac drives simultaneously. The data is passed from the network to the Rockwell Automation backplane. The data transfer from the PLC processor is asynchronous from the actions on the UDP/IP network. A 5000-word register space in the module exchanges data between the processor and the network.

General Specifications

- Single Slot – 1771 backplane compatible
- The module is recognized as an Input/Output module and has access to processor memory for data transfer between processor and module
- Ladder Logic is used for data transfer between module and processor.
- Configuration data obtained through user-defined ladder. Sample ladder file included

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1771 chassis compatible BTR/BTW data transfer Local or remote rack
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)
Shock	30g operational 50g non-operational
Vibration	5 g from 10150 Hz
Relative humidity	5 to 95% (non-condensing)
LED Indicators	Module status Backplane transfer status Application status Serial activity and error LED status

Specification	Description
Debug/Configuration port (CFG)	
CFG Port (P1)	RJ45 (DB-9M with supplied cable) RS-232 only
Configuration Connector	RJ45 RS-232 Connector (RJ45 to DB-9 cable shipped with unit)
Application Ports	
Application Serial port (P2, P3) (Serial Modules)	(2) RJ45 RS-232/422/485 Application ports

Functional Specifications

A client configured as a Bardac master device on the MVI71-BDW module will actively issue Bardac-DW commands to other nodes on the Bardac-DW network. One hundred commands are supported for each client. The PLC processor can be programmed to control the activity on the client by actively selecting commands from the command list to execute, or issuing commands directly from the ladder logic.

Some of the general specifications include:

- Support for the storage and transfer of up to 5000 registers to/from the PLC processor's controller tags
- Module memory usage that is completely user-definable
- Ability for the user to define commands to set or get parameters from the Bardac device
- 10/100 MB Ethernet compatible interface
- Supports up to 100 user-defined read or write commands that can be sent to a Bardac device
- Configurable parameters for the client include
  o Error/Status Pointer
  o Command Error Pointer
  o Response Timeout
  o Retry Count

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

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