



DNP 3.0 Master/Slave Communication Module

MVI94-DNP

The MVI94-DNP module is the ideal solution for many applications where DNP 3.0 master and/or slave protocol connectivity must be added to a FLEX system.

The DNP solution is designed to address the expanding interest in the DNP 3.0 protocol. The protocol was originally 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 & gas industries.

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The MVI94 DNP 3.0 Master/Slave Communication Module is a single slot, backplane compatible DNP 3.0 interface solution for the Rockwell Automation Flex platform. This module provides highly configurable support of both DNP 3.0 Master and Slave implementations (level 2 minimum), allowing the many SCADA and field devices supporting the DNP protocol to be integrated into the powerful Flex platform.

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 Flex platform. The module acts as an input/output module between the DNP network and the Flex backplane. The data transfer from the Flex 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

Some of the general specifications include:

- Operation via simple ladder logic
- Complete setup and monitoring of module through Debug port and user configuration file
- Flex backplane interface via I/O access

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1794 Backplane compatible Locate in any slot of Backplane
Backplane current load	20 mA @ 5 V
External power supply	12V to 24VDC 340 mA to 170 mA
Operating temperature	0 to 55°C (32 to 140°F)
Storage temperature	-40 to 85°C (-40 to 185°F)
Shock	30g operational 50g non-operational 5g 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

