



# Phantom Network Protocol Master Communication Module

## MVI56-PNPM

The MVI56 Phantom Network Protocol Master Communication Module allows Rockwell Automation ControlLogix I/O compatible processors to easily interface with Phantom metal detector devices.

## Features and Benefits

The MVI56-PNPM module acts as a gateway between the Phantom network and the Rockwell Automation backplane. The data transfer from the ControlLogix processor is asynchronous from the actions on the Phantom network. A 5000-word register space in the module is used to exchange data between the processor and the Phantom network.

## General Specifications

- Single Slot – 1756 backplane compatible
- Local or remote rack
- 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

## Functional Specifications

A port configured as a virtual Phantom master device on the MVI56-PNPM module will actively issue Phantom commands to other nodes on the Phantom network. One hundred commands are supported on each port. Additionally, the master ports have an optimized polling characteristic that will poll slaves with communication problems less frequently. The ControlLogix processor can be programmed to control the activity on the port by actively selecting commands from the command list to execute or issuing commands directly from the ladder logic. The ControlLogix processor also has the ability to control the scanning of slaves on the port.

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*Metal detection systems are commonly used to enhance product safety in packaging and production lines for food products, pharmaceuticals, pipelines, components, and in any application that requires detection of the presence (or absence) of metal particles.*

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## 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)
Shock:	30g Operational 50g non-operational Vibration: 5 g from 10 to 150 Hz
Relative Humidity	5 to 95% (non-condensing)
LED Indicators:	Module Status Backplane Transfer Status Application Status Serial Activity
<b>Debug/Configuration port (CFG)</b>	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only
<b>Application ports (PRT1 &amp; PRT2)</b>	
Full hardware handshaking control, providing radio, modem and Multi-drop support	
Software configurable communication parameters	Baud rate: 110 to 115,200 baud, depending on protocol RS-232, 485 and 422 Parity: none, odd or even Data bits: 5, 6, 7, or 8 Stop bits: 1 or 2 RTS on/off delay: 0 to 65535 ms
App Ports (P1,P2) (Serial modules)	RJ45 (DB-9M with supplied cable) RS-232 handshaking configurable 500V Optical isolation from backplane
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration cable

## Additional Products

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