



## In-Chassis High Speed Wireless Communication Module

### MVI69-WA-PWP

The inRAx series of wireless products provides users more flexibility than ever before seen in wireless solutions. Use the MVI69-WA-PWP module to connect various field devices using different networks or protocols, and share data between these devices "over-the-air." This is accomplished by exchanging shared common database information wirelessly with ProSoft Technology's efficient but powerful wireless protocol, PWP.

### How to Contact Us: Sales and Support

All ProSoft Technology® products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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## In-Chassis High Speed Wireless Communication Module

### MVI69-WA-PWP

The In-Chassis Wireless Communication Module creates a powerful wireless connection between devices located remotely, and the CompactLogix processor. The efficient but powerful PWP protocol allows data exchange in one-to-one or one-to-many wireless scenarios.

### Features and Benefits

ProSoft Wireless Protocol (PWP) offers versatility where a mix of control devices requires cooperation with each other. This involves sharing of information across the applications regardless of device or network type, often at high speed. Wireless bandwidth utilization is optimized by using efficient communication methods. The protocol supports Unicast, Broadcast and Multicast group messaging. The protocol is efficient because each device on the wireless network can produce these types of messages and each device determines which of these messages to consume.

### General Specifications

- Single Slot - 1769 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. Sample ladder file included.
- Configuration data obtained from configuration text file downloaded to module. Sample configuration file included.
- Supports all CompactLogix processors: L20/L30/L31/L32/L35 and L43 (L43 supported with RSLogix 5000 v16)
- Also supports MicroLogix 1500 LRP

### Hardware Specifications

Specification	Description
Dimensions	Standard 1769 Single-slot module
Backplane Current Load	800 mA max@ 5 VDC Power supply distance rating of 2
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)

Specification	Description
LED Indicators	Battery and Module Status Application Status CFG Port Activity RF Link RF Data Four Level RF Signal Quality
Configuration Serial Port (Debug/ Config)	RJ45 (DB-9F with supplied cable) RS-232 only No hardware handshaking
Shipped with Unit	RJ45 to DB-9M cable 6-foot RS-232 configuration Cable 5dbi Omni Articulating Antenna

### Functional Specifications

Includes ProSoft Configuration Builder (PSW-PCB) configuration software.

### General Radio Specifications

Specification	Value
Frequency	2.4 GHz band (2400 to 2483.5 MHz)*
Wireless medium	DSSS - Direct Sequence Spread Spectrum (802.11 b)
Output power	32 mW (15 dBm)
Channel data rates	11, 5.5, 2, 1 Mbps
Channels - user selectable	11 - North America 13 - Europe** 14 - Japan
Security	PWP + WEP 64/128 Encryption with WEP key rollover management
Antenna Ports	Two RP-SMA connectors, automatic antenna diversity
Bit Error Rate (BER)	Better than 10 <sup>-5</sup>

Range / Transmit Rate	High Speed 11 Mbps	Medium Speed 5.5 Mbps	Standard Speed 2 Mbps	Low Speed 1 Mbps
Open Office Environment	160m (525 ft.)	270 m (885 ft.)	400 m (1300 ft.)	550 m (1750 ft)
Semi-Open Office Environment	50 m (165 ft.)	70 m (230 ft.)	90 m (300 ft.)	115 m (375 ft.)
Closed Office	25 m (80 ft.)	35 m (115 ft.)	40 m (130 ft.)	50 m (165 ft)
Receiver Sensitivity	-83 dBm	-87 dBm	-91 dBm	-94 dBm

General range guidelines (actual results may vary)

\* Varies with country regulation

\*\* Some European countries such as France allow fewer channels

### Additional Products

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

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

### Ordering Information

To order this product, please use the following:

**MVI69-WA-PWP** In-Chassis High Speed Wireless Communication Module

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to <http://www.prosoft-technology.com>

#### Distributors:

Place your order by email or fax to:

**North American / Latin American / Asia Pacific**  
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