



DATASHEET

inRAX Message Manager for Industrial Communication ILX56-MM

The InRAX[®] Message Manager for Industrial Communication allows Rockwell Automation[®] ControlLogix[®] I/O compatible processors to interface easily with other Message Manager (MM) protocol-compatible devices.

The ProSoft Technology[®] inRAX[®] Message Manager is a single-slot solution that connects and transfers Factory and Plant Process Automation monitoring and control data across diverse platforms, networks, and protocols.

The inRAX Message Manager is an easy-to-use data transfer engine for the ControlLogix[®] 1756 platform, supporting Rockwell Automation[®] Programmable Logic Controller (PLC) and Programmable Automation Controller (PAC) network protocols, as well as platforms and devices that use Siemens Industrial Ethernet and Modbus TCP/IP protocols.

The inRAX Message Manager makes it easy for System Integrators and End Users to reduce the engineering effort required to coordinate data transfers between multiple control systems in Factory and Plant Automation applications. The Message Manager simplifies and streamlines data connection and transfer operations by enabling PLC/PAC data exchanges without the need for additional message-specific PLC programming.



Features	Benefits
PLC/PAC data transfer execution	◆ No PLC / PAC message programming required
Built-in web configuration tool	◆ No software to buy, install or maintain. Easy to use interface
Two built-in Ethernet ports	◆ Connectivity to Modbus TCP/IP and Siemens Industrial Ethernet (does not support configured TSAP connections)

Configuration

The Message Manager acts as a communication interface as well as a message transaction engine. The easy-to-use configuration utility is web based, built into the module, and is used for module and network configuration, diagnostics and uploading/downloading. PLC to PLC data transfers no longer require message programming. Setting up these transfers can be done at one location for up to 16 controllers, including various networked Rockwell Automation controllers as well as PLC/PACs that reside on either Modbus TCP/IP or Siemens Industrial Ethernet networks.



General Specifications

- Built-in web-based configuration utility
- Requires Internet Explorer 7 for full implementation
- Single slot – 1756 backplane compatibility
- Remove and Insert Under Power – RIUP
- Local or Remote rack
- Four-character, alphanumeric, scrolling display for status and diagnostics

Functional Specifications

Protocols Supported: Modbus TCP/IP and Siemens Industrial Ethernet (IE) supported via the built-in Ethernet ports. EtherNet/IP, ControlNet™, Data Highway+™ (DH+) and Data Highway 485™ (DH485) are supported through Rockwell Automation® (RA) 1756 communications bridge modules.

Data Transfers: Transfer data between up to 16 individually-configurable communications *Interface* connections

Interfaces: Choose RA, Modbus TCP/IP, or Siemens IE protocol for each *Interface*

Tags: Browse and use tag names from any RA PAC in a ControlLogix local or remote chassis or any Allen-Bradley® PLC or RA PAC connected across supported bridged networks. Create user-defined *Tags* for Modbus TCP/IP and Siemens Step 7 data addresses.

Transfer Lists: Create data exchange lists using source and destination *Tags*

Triggers: Define events that will cause one or more *Transfer Lists* to be executed. *Triggers* can be based on *Tag* values or scheduled time intervals.

Security: No login required to view configuration information. Must log in to make configuration changes. *PROJECT*-level users may make configuration changes and start/stop data transfer operations (that is, switch between *RUN* and *IDLE*). *ADMINISTRATOR*-level users may make Project -level changes as well as assign usernames, passwords, and security access levels for all users.

Internal Date and Time: Can be set manually or synchronized with ControlLogix or CompactLogix™ PACs. The frequency of synchronization can be: No frequency, Hourly, Daily, Every 8 hours, or Every 12 hours.

Configuration Data: Can be saved offline or saved to the on board compact flash card.

Configuration Utility: Contains built-in Help functions. On-Line configuration only

Setup Mode: Setup Mode temporarily sets the Message Manager network port settings to their default values. Setup Mode also allows you to reset the default administrative password.

Operational Modes:

- *IDLE*: Not running triggers (configuration mode)
- *RUN*: Running triggers (normal operation)
- *STOP*: Error state (check active error list, correct errors listed, then return to run)

Hardware Specifications

Specification	Description
Battery	Rechargeable Lithium Vanadium Pentoxide
Clock	Precision RTC accurate to +/- 4 minutes/year
Display	Onboard 4-Character Alpha-numeric display
Temperature	Operating: 0 to 60 deg. C / 32 to 140 deg. F Storing: -40 to 80 deg. C / -40 to 176 deg. F
Form Factor	Single-Slot ControlLogix Module
Power Ratings	1000mA @ 5 VDC 5-Watts Max. Power Consumption



Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our web site at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

inRax Message Manager for Industrial Communication

ILX56-MM

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to: www.prosoft-technology.com and select Distributors from the menu.

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Specifications subject to change without notice.

Agency Approvals & Certifications

CSA	C22.2 No. 213-1987
CB Certified	IEC61010
GOST-R	EN 61010
CE	EMC-EN61326-1:2006; EN61000-6-4:2007



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