RSTi-OM IO-Link Master

IMPORTANT PRODUCT INFORMATION



⚠ WARNING

Warning notices are used in this publication to emphasize that hazardous voltages, currents, temperatures, or other conditions that could cause personal injury exist in this equipment or may be associated with its use.

In situations where inattention could cause either personal injury or damage to equipment, a Warning notice is used.

⚠ CAUTION

Caution notices are used where equipment might be damaged if care is not taken.

Note: Notes merely call attention to information that is especially significant to understanding and operating the equipment.

These instructions do not purport to cover all details or variations in equipment, nor to provide for every possible contingency to be met during installation, operation, and maintenance. The information is supplied for informational purposes only, and Emerson makes no warranty as to the accuracy of the information included herein. Changes, modifications, and/or improvements to equipment and specifications are made periodically and these changes may or may not be reflected herein. It is understood that Emerson may make changes, modifications, or improvements to the equipment referenced herein or to the document itself at any time. This document is intended for trained personnel familiar with the Emerson products referenced herein.

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Features

The IOLM's web interface provides a platform so that you can easily configure, review diagnostic pages, and access advanced features, such as the ability to:

- Set up Passwords for pre-defined user accounts
- Utilize data storage to provide automatic and manual data storage to upload or download IO-Link v1.1 device parameters
- Run device validation to support identical or compatible device validation to dedicate a port or ports to specific IO-Link devices
- Run data validation to support strict or loose data validation to verify dataintegrity
- Back up configuration files or load the same configuration to multiple IOLM units
- Generate diagnostics data to support maintenance

Models

For complete technical information about this product, including installation instructions, application requirements and guidelines, technical specifications, and accessories, go to the support site links at the end of this document and search for the GFK-3212, RSTi-OM User Manual.

Model	Descriptions
OMIOLM001	The module is PROFINET / Modbus TCP / OPC-UA / MQTT Fieldbus module with 8 Class A IO-Link master ports

Firmware Details

Firmware Component		Release 2.3	Release 2.2	Release 2.1	Release 2.0	Release 1.0
Field Upgradable	U-Boot Bootloader	1.45	1.44	1.43	1.43	1.38
	FPGA	1.20	1.20	1.20	1.20	1.20
	System - Primary	1.72	1.61	1.59	1.59	1.55
	System - Backup	1.72	1.61	1.59	1.59	1.55
	Application Base	1.7.8	1.6.54	1.6.50a	1.6.50	1.6.19e

Application		Release 2.3	Release 2.2	Release 2.1	Release 2.0	Release 1.0
Field Upgradable	Application-manager	1.7.0.1	1.6.0.3	1.6.0.3	1.6.0.3	1.6.0.1
	Configuration-manager	1.7.0.0	1.6.0.3	1.6.0.3	1.6.0.3	1.6.0.2
	Discovery-protocol	1.7.0.0	1.6.0.2	1.6.0.2	1.6.0.2	1.6.0.2
	Event-log	1.7.0.0	1.6.0.0	1.6.0.0	1.6.0.0	1.6.0.0
	Iolink-driver	1.7.0.4	1.6.0.31	1.6.0.25	1.6.0.24	1.6.0.7
	libiolinkutils	1.7.0.15	1.6.0.36	1.6.0.36	1.6.0.36	1.6.0.13
	modbus	1.7.0.8	1.6.1.27	1.6.1.26	1.6.1.26	1.6.0.7
	mqtt	1.7.0.17	1.6.0.12	1.6.0.12	1.6.0.12	1.6.0.4
	Opcua-server	1.7.0.0	1.6.0.13	1.6.0.13	1.6.0.13	1.6.0.2
	Profinetio	1.7.0.3	1.6.2.12	1.6.2.9	1.6.2.9	1.6.0.6
	Web-help	1.7.0.0	1.6.0.4	1.6.0.4	1.6.0.4	1.6.0.4
	Web-user-interface	1.7.0.9	1.6.0.45	1.6.0.43	1.6.0.43	1.6.0.27b

Related Information

Product Documentation

Manual Title	GFK Number
RSTi-OM User Manual	GFK-3212
RSTi-OM Quick Start Guide	GFK-3213
RSTI-OM Secure Deployment Guide	GFK-3214

In addition to these manuals, product update documents describe individual product revisions. The most recent PACSystems documentation is available on the Support website linked at the end of this document.

Important Product Information for this Release

Release History

Module revision	Firmware Version	Date	Description
OMIOLM001-ABAE	2.3	Sep 2026	Security fixes release
OMIOLM001-ABAD	2.2	Dec 2024	Firmware is updated to optimize syslog
OMIOLM001-ABAC	2.1	May 2024	• Updated to address internally identified Defect DE10979. • GSDML is updated to address the warnings while importing in PME.
OMIOLM001-ABAB	2.0	Oct 2023	Firmware release compatible with new FPGA
OMIOLM001-AAAA	1.0	Jun 2021	Initial Release

Functional Compatibility

Subject	Description
PAC Machine Edition™ Logic Developer PLC Programmer Version Requirements	PAC Machine Edition Logic Developer PLC 9.8
Firmware Versions	Revision -ABAD • U-Boot bootloader v1.44 • System uImage v1.61 • PNIO application base v1.6.54 • FPGA uImage v1.20
GSDML Version	GSDML-V2.33-IntelligentPlatformsLLC-RSTi-OM-20231110

Problems Resolved by this Revision

Subject	Defect ID	Description
Release 2.3		Security Fixes Release
Syslog fix	-	Syslog flooding when using Modbus communication.

Restrictions and Open Issues

Subject	Description
Loss of Device (OMIOLM001) is observed when accessing webserver. (Applicable to release 2.0, 2.1 and 2.2)	It is recommended to access webserver only during installation or commissioning phase. Accessing webserver during normal operation may lead to communication drop with master controller.

Operational Notes

Subject	Description
Release 2.3	None
N/A	N/A

Contact Information and Support Guide

Questions? We are here to help.

Before starting a case or making a call, try searching our Knowledge Base on the Customer Center website—it might have the answer you need right away.

If you have a question, try the following steps:

Search our Knowledge Base	Open a Support Ticket	Register for a Customer Account
pacsystems.co/knowledge	pacsystems.co/support	pacsystems.co/signup

Other Helpful Links

Customer Center Home Page	Commercial Website	Contact Information
pacsystems.co/customercenter	pacsystems.co/commercial	pacsystems.co/contactus

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