

# RM-G4000-PL Module Series

Ethernet modules for RKS-G4000-PL modular managed switches



## Features and Benefits

- -40 to 75°C operating temperature range
- IEC 61850-3 and IEEE 1613 compliant
- Hot-swappable

## Certifications



## Introduction

The RM-G4000-PL Module Series is specifically engineered for the IEC 61850-3 RKS-G4000-PL Series rack-mount Ethernet switches, offering high-density Gigabit connectivity. Each module supports up to 8 Gigabit ports with versatile interface options, including 10/100/1000BaseT(X) copper, 100/1000BaseSFP fiber, and IEEE 802.3bt PoE. Designed for mission-critical environments, the RM-G4000-PL series provides ultra-high-capacity PoE functionality, delivering up to 90W per port (with a 240W power budget per module) to effortlessly drive heavy-duty edge devices.

## Specifications

### Ethernet Interface

10/100/1000BaseT(X) Ports (RJ45 connector)	RM-G4000-PL-8GTX: 8
100/1000BaseSFP Ports	RM-G4000-PL-8GSFP: 8
PoE Ports (10/100/1000BaseT(X), RJ45 connector)	RM-G4000-PL-8GPoE: 8 Note: The PoE function of the RM-G4000-PL-8GPoE module is only available when used with RKS-G4000-PL PoE models.
Note	The RM-G4000-PL series modules support full-duplex communication only; half-duplex mode is not supported.

### Power Parameters

Power Consumption	RM-G4000-PL-8GSFP: 10.42 W (max.) RM-G4000-PL-8GTX: 6.05 W (max.) RM-G4000-PL-8GPoE: 6.5 W (max.)
-------------------	---

### Physical Characteristics

Weight	RM-G4000-PL-8GSFP: 505 g (1.11 lb) RM-G4000-PL-8GTX: 438 g (0.97 lb) RM-G4000-PL-8GPoE: 596 g (1.314 lb)
--------	--

### MTBF

Time	RM-G4000-PL-8GSFP: 5,828,713 hrs RM-G4000-PL-8GTX: 11,847,571 hrs RM-G4000-PL-8GPoE: 3,832,500 hrs
------	--

### Standards

	Telcordia (Bellcore), GB
--	--------------------------

## Warranty

Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

## Package Contents

Device	1 x RM-G4000-PL Series module
Documentation	1 x warranty card

## Ordering Information

Model Name	10/100/1000BaseT(X) Ports	100/1000BaseSFP Ports
RM-G4000-PL-8GSFP	-	8
RM-G4000-PL-8GTX	8	-
RM-G4000-PL-8GPoE	8 (IEEE 802.3bt PoE)	-

## Accessories (sold separately)

### SFP Modules

SFP-1FELLC-T	SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1FEMLC-T	SFP module with 1 100Base multi-mode, LC connector for 2/4 km transmission, -40 to 85°C operating temperature
SFP-1FESLC-T	SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1G10ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G10ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G10BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G10BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G20ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G20ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G20BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G20BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G40ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G40ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G40BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G40BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1GEZSLC	SFP module with 1 1000BaseEZS port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZSLC-120	SFP module with 1 1000BaseEZS port with LC connector for 120 km transmission, 0 to 60°C operating temperature

SFP-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature
SFP-1GLHXLC	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLHXLC-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, -40 to 85°C operating temperature
SFP-1GLXLC	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-1GLXLC-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating temperature
SFP-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60°C operating temperature
SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, -40 to 85°C operating temperature
SFP-1GZXLC	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature
SFP-1GZXLC-T	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1GTXRJ45-T	SFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°C operating temperature

© Moxa Inc. All rights reserved. Updated May 22, 2026.

This document and any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of Moxa Inc. Product specifications subject to change without notice. Visit our website for the most up-to-date product information.