

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 www.moxa.com/warranty

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-1GEZXLC	SFP module with 1 1000BaseEZS port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZXLC-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-1GLHXC	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLHXC-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GLSXC	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C operating temperature
SFP-1GLSXC-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-1GSXC	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60°C operating temperature
SFP-1GSXC-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

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