

RM-G4000 模組系列

RKS-G4028 系列機架式乙太網路交換器的快速乙太網路與 Gigabit 模組



特色與優點

- -40°C 至 75°C 操作溫度範圍
- 符合 IEC 61850-3 及 IEEE 1613 規範

認證



簡介

RM-G4000 模組系列為 RKS-G4000 系列機架式乙太網路交換器提供 Gigabit 與快速乙太網路模組。每個 RM-G4000 系列模組最多支援 8 個埠，並提供多種介面類型，包括 TX、MSC、SSC 與 MST 等媒體類型。此外，RM-G4000-8GPoE 與 RM-G4000-8PoE 模組為 RKS-G4000 系列的 PoE 型號提供高容量的 PoE 功能。IEEE 1588 介面模組提供基於硬體的 PTP 功能，可在整個網路中實現精確的時間同步。

規格

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	RM-G4000-8TX: 8 RM-G4000-2MSC4TX: 4 RM-G4000-2MST4TX: 4 RM-G4000-2SSC4TX: 4 RM-G4000-4MSC2TX: 2 RM-G4000-4MST2TX: 2 RM-G4000-4SSC2TX: 2
10/100/1000BaseT(X) Ports (RJ45 connector)	RM-G4000-8GTX: 8
100/1000BaseSFP Slots	RM-G4000-8GSFP: 8
100BaseSFP Slots	RM-G4000-8SFP: 8
100BaseFX Ports (multi-mode SC connector)	RM-G4000-6MSC: 6 RM-G4000-2MSC4TX: 2 RM-G4000-4MSC2TX: 4
100BaseFX Ports (multi-mode ST connector)	RM-G4000-6MST: 6 RM-G4000-2MST4TX: 2 RM-G4000-4MST2TX: 4
100BaseFX Ports (single-mode ST connector)	RM-G4000-6SSC: 6 RM-G4000-2SSC4TX: 2 RM-G4000-4SSC2TX: 4
PoE Ports (10/100/1000BaseT(X), RJ45 connector)	RM-G4000-8GPoE: 8

PoE Ports (10/100BaseT(X), RJ45 connector)	RM-G4000-8PoE: 8				
Optical Fiber			100BaseFX		
			Multi-Mode		Single-Mode
	Fiber Cable Type	OM1	50/125 μm	G.652	
			800 MHz x km		
	Typical Distance		4 km	5 km	40 km
	Wavelength	Typical (nm)	1300		1310
		TX Range (nm)	1260 to 1360		1280 to 1340
		RX Range (nm)	1100 to 1600		1100 to 1600
	Optical Power	TX Range (dBm)	-10 to -20		0 to -5
		RX Range (dBm)	-3 to -32		-3 to -34
		Link Budget (dB)	12		29
		Dispersion Penalty (dB)	3		1
	Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power. Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).				

Power Parameters

Power Consumption (Max.)	RM-G4000-8TX: 4.22 W RM-G4000-8GTX: 4.22 W RM-G4000-8PoE: 4.75 W RM-G4000-8GPoE: 4.75 W RM-G4000-8SFP: 6.91 W RM-G4000-8GSFP: 6.91 W RM-G4000-6MSC: 4.61 W RM-G4000-6MST: 4.61 W RM-G4000-6SSC: 5.47 W RM-G4000-2MSC4TX: 2.88 W RM-G4000-2MST4TX: 2.88 W RM-G4000-2SSC4TX: 3.17 W RM-G4000-4MSC2TX: 3.74 W RM-G4000-4MST2TX: 3.74 W RM-G4000-4SSC2TX: 4.03 W
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Physical Characteristics

Weight	RM-G4000-8TX: 300 g (0.66 lb) RM-G4000-8GTX: 300 g (0.66 lb) RM-G4000-8PoE: 500 g (1.10 lb) RM-G4000-8GPoE: 500 g (1.10 lb) RM-G4000-8SFP: 400 g (0.88 lb) RM-G4000-8GSFP: 400 g (0.88 lb) RM-G4000-6MSC: 400 g (0.88 lb) RM-G4000-6MST: 400 g (0.88 lb) RM-G4000-6SSC: 400 g (0.88 lb) RM-G4000-2MSC4TX: 400 g (0.88 lb) RM-G4000-2MST4TX: 400 g (0.88 lb) RM-G4000-2SSC4TX: 400 g (0.88 lb) RM-G4000-4MSC2TX: 400 g (0.88 lb) RM-G4000-4MST2TX: 400 g (0.88 lb) RM-G4000-4SSC2TX: 400 g (0.88 lb)
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MTBF

Time	RM-G4000-8TX: 12,132,675 hrs RM-G4000-8GTX: 12,132,675 hrs RM-G4000-8PoE: 2,063,404 hrs RM-G4000-8GPoE: 2,063,404 hrs RM-G4000-8SFP: 3,005,803 hrs RM-G4000-8GSFP: 3,005,803 hrs RM-G4000-6MSC: 2,183,161 hrs RM-G4000-6MST: 2,183,161 hrs RM-G4000-6SSC: 2,183,161 hrs RM-G4000-2MSC4TX: 2,891,502 hrs RM-G4000-2MST4TX: 2,891,502 hrs RM-G4000-2SSC4TX: 2,891,502 hrs RM-G4000-4MSC2TX: 2,469,891 hrs RM-G4000-4MST2TX: 2,469,891 hrs RM-G4000-4SSC2TX: 2,469,891 hrs
Standards	Telcordia (Bellcore), GB

Warranty

Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

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

訂購資訊

Model Name	10/100/ 1000BaseT(X) Ports	10/100BaseT(X) Ports	100/ 1000BaseSFP Ports	100BaseSFP Ports	100BaseFX Ports Multi- mode, SC Connector	100BaseFX Port Multi-mode, ST Connector	100BaseFX Port Single-mode, SC Connector
RM-G4000-8GTX	8	–	–	–	–	–	–
RM-G4000-8TX	–	8	–	–	–	–	–
RM-G4000-8GSFP	–	–	8	–	–	–	–
RM-G4000-8SFP	–	–	–	8	–	–	–
RM-G4000-6MSC	–	–	–	–	6	–	–
RM-G4000-6MST	–	–	–	–	–	6	–
RM-G4000-6SSC	–	–	–	–	–	–	6
RM-G4000-4MSC2TX	–	2	–	–	4	–	–
RM-G4000-4MST2TX	–	2	–	–	–	4	–
RM-G4000-4SSC2TX	–	2	–	–	–	–	4
RM-G4000-2MSC4TX	–	4	–	–	2	–	–
RM-G4000-2MST4TX	–	4	–	–	–	2	–
RM-G4000-2SSC4TX	–	4	–	–	–	–	2
RM-G4000-8GPoE	8 (IEEE 802.3bt PoE)	–	–	–	–	–	–
RM-G4000-8PoE	–	8 (IEEE 802.3bt PoE)	–	–	–	–	–

配件 (選購)

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 1000BaseEZ port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZ 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-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°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

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