

Ethernet and PoE+ modules for the PT-G7728/G7828 Series and MDS-G4012/20/28 Series



- Features and Benefits
- -40 to 85°C wide operating temperature
 - IEC 61850-3 and IEEE 1613 compliant
 - IEC 62439-3 Clause 4 (PRP) and Clause 5 (HSR) compliant
 - Hot-swappable



Introduction

The LM-7000H Module Series is designed for the PT-G7728/G7828 Series and MDS-G4012/G4020/G4028 Series IEC 61850-3 Ethernet switches. These modules provide additional flexibility to supported switches by letting you add 4 Gigabit Ethernet or PoE ports per module, or 2 Gigabit PRP/HSR ports per module.

Specifications

Ethernet Interface	
PoE Ports (100/1000BaseT(X), RJ45 connector)	LM-7000H-4GPoE: 4
10/100BaseT(X) Ports (RJ45 connector)	LM-7000H-4TX: 4
PoE Ports (10/100BaseT(X), RJ45 connector)	LM-7000H-4PoE: 4
100/1000BaseSFP Slots	LM-7000H-4GSFP: 4
10/100/1000BaseT(X) Ports (RJ45 connector)	LM-7000H-4GTX: 4
Combo Ports (100/1000BaseT(X) PRP/HSR or 100/1000BaseSFP PRP/HSR)	LM-7000H-2GPHR: 2 (For PT-G7728 Series only)
Power Parameters	
Power Consumption	LM-7000H-4GTX: 3.63 W (max.) LM-7000H-4GPoE: 3.8 W (max.) LM-7000H-4GSFP: 4.8 W (max.) LM-7000H-4TX: 1.85 W (max.) LM-7000H-4PoE: 1.85 W (max.) LM-7000H-2GPHR: 8.1 W (max.)
Physical Characteristics	
Weight	LM-7000H-4GSFP: 0.3 kg (0.66 lb) LM-7000H-4GTX: 0.24 kg (0.53 lb) LM-7000H-4GPoE: 0.31 kg (0.69 lb) LM-7000H-4TX: 0.24 kg (0.53 lb) LM-7000H-4PoE: 0.31 kg (0.69 lb) LM-7000H-2GPHR: 0.31 kg (0.69 lb)

MTBF

Time	LM-7000H-4GPoE: 1,280,518 hrs LM-7000H-4GSFP: 2,475,903 hrs LM-7000H-4GTX: 2,641,729 hrs LM-7000H-4PoE: 1,280,220 hrs LM-7000H-4TX: 2,640,462 hrs LM-7000H-2GPoE: 1,832,962 hrs
Standards	Telcordia (Bellcore), GB

Warranty

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

Ordering Information

Model Name	10/100/ 1000BaseT(X) Ports	10/100BaseT(X) Ports	100/ 1000BaseSFP Slots	100/ 1000BaseT(X) PoE Ports	10/100BaseT(X) PoE Ports	Combo Ports (10/100/ 1000BaseT(X) PRP/HSR or 100/ 1000BaseSFP PRP/HSR)	Operating Temp.
LM-7000H-4GTX	4	–	–	–	–	–	-45 to 85°C
LM-7000H-4TX	–	4	–	–	–	–	-45 to 85°C
LM-7000H-4GPoE	–	–	–	4	–	–	-45 to 85°C
LM-7000H-4PoE	–	–	–	–	4	–	-45 to 85°C
LM-7000H-4GSFP	–	–	4	–	–	–	-45 to 85°C
LM-7000H-2GPoE	–	–	–	–	–	2	-45 to 75°C

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 with LC connector for 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 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZX 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-1GLHXL	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLHXL-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GLSXL	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C operating temperature
SFP-1GLSXL-T	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, -40 to 85°C operating temperature
SFP-1GLXL	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-1GLXL-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating temperature
SFP-1GSXL	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60°C operating temperature
SFP-1GSXL-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

© Moxa Inc. All rights reserved. Updated Apr 14, 2022.

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.