

IM-6700A Module Series

Fast Ethernet modules for IKS-6726A-2GTXSFP/6728A-4GTXSFP/6728A-8PoE-4GTXSFP modular managed switches



Features and Benefits

- Modular design lets you choose from a variety of media combinations

Introduction

IM-6700A fast Ethernet modules are designed for the modular, managed, rack-mountable IKS-6700A Series switches. Each slot of an IKS-6700A switch can accommodate up to 8 ports, with each port supporting the TX, MSC, SSC, and MST media types. As an added plus, the IM-6700A-8PoE module is designed to give IKS-6728A-8PoE Series switches PoE capability. The modular design of the IKS-6700A Series ensures that the switches meet multiple application requirements.

Specifications

Ethernet Interface

100BaseFX Ports (multi-mode SC connector)	IM-6700A-2MSC4TX: 2 IM-6700A-4MSC2TX: 4 IM-6700A-6MSC: 6
100BaseFX Ports (multi-mode ST connector)	IM-6700A-2MST4TX: 2 IM-6700A-4MST2TX: 4 IM-6700A-6MST: 6
100BaseFX Ports (single-mode SC connector)	IM-6700A-2SSC4TX: 2 IM-6700A-4SSC2TX: 4 IM-6700A-6SSC: 6
100BaseSFP Slots	IM-6700A-8SFP: 8
10/100BaseT(X) Ports (RJ45 connector)	IM-6700A-4MSC2TX/4MST2TX/4SSC2TX: 2 IM-6700A-2MSC4TX/2MST4TX/2SSC4TX: 4 IM-6700A-8TX: 8 Supported functions: Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection
PoE Ports (10/100BaseT(X), RJ45 connector)	IM-6700A-8PoE: Auto negotiation speed, Full/Half duplex mode

Standards	IM-6700A-8PoE: IEEE 802.3af/at for PoE/PoE+ output				
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	IM-6700A-8TX/8PoE: 1.21 W (max.) IM-6700A-8SFP: 0.92 W (max.) IM-6700A-2MSC4TX/2MST4TX/2SSC4TX: 3.19 W (max.) IM-6700A-6MST/6SSC/6MSC: 7.57 W (max.) IM-6700A-4SSC2TX/4MSC2TX/4MST2TX: 5.28 W (max.)

Physical Characteristics	
Weight	IM-6700A-8TX: 225 g (0.50 lb) IM-6700A-8SFP: 295 g (0.65 lb) IM-6700A-2MSC4TX/2MST4TX/2SSC4TX/4MSC2TX/4MST2TX/4SSC2TX: 270 g (0.60 lb) IM-6700A-6MSC/6SSC/6MSC: 390 g (0.86 lb) IM-6700A-8PoE: 260 g (0.58 lb)

MTBF	
Time	IM-6700A-2MSC4TX/2MST4TX/2SSC4TX: 1,031,180 hrs IM-6700A-4MSC2TX: 530,268 hrs IM-6700A-4MST2TX: 537,942 hrs IM-6700A-4SSC2TX: 4,359,518 hrs IM-6700A-6MSC: 366,119 hrs IM-6700A-6MST/6SSC: 365,741 hrs IM-6700A-8PoE: 338,800 hrs IM-6700A-8SFP: 3,510,110 hrs IM-6700A-8TX: 10,412,400 hrs

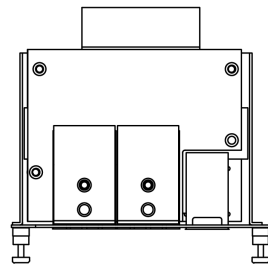
Standards	Telcordia (Bellcore), GB
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Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty

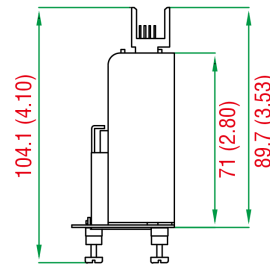
Package Contents	
Device	1 x IM-6700A Module Series module
Documentation	1 x warranty card

Dimensions

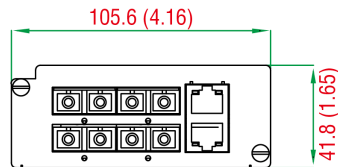
Unit: mm (inch)



Top View



Side View



Front View

Ordering Information

Model Name	10/100BaseT(X) Ports	100BaseFX Ports Multi-Mode, SC Connector	100BaseFX Ports Multi-Mode, ST Connector	100BaseFX Ports Single-Mode, SC Connector	100Base SFP Ports
IM-6700A-2MSC4TX	4	2	–	–	–
IM-6700A-2MST4TX	4	–	2	–	–
IM-6700A-2SSC4TX	4	–	–	2	–
IM-6700A-4MSC2TX	2	4	–	–	–
IM-6700A-4MST2TX	2	–	4	–	–
IM-6700A-4SSC2TX	2	–	–	4	–
IM-6700A-6MSC	–	6	–	–	–
IM-6700A-6MST	–	–	6	–	–
IM-6700A-6SSC	–	–	–	6	–
IM-6700A-8PoE	8 (PoE+ ports)	–	–	–	–
IM-6700A-8SFP	–	–	–	–	8
IM-6700A-8TX	8	–	–	–	–

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

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