

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		
<p>Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power.</p> <p>Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).</p>					

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
-----------	--------------------------

Warranty

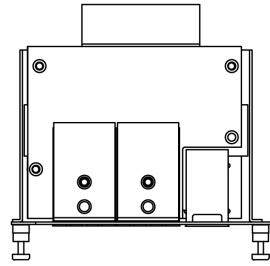
Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

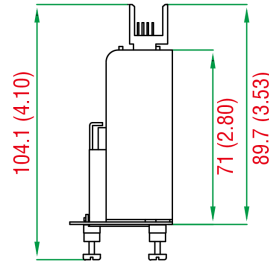
Device	1 x IM-6700A Module Series module
Documentation	1 x warranty card

Dimensions

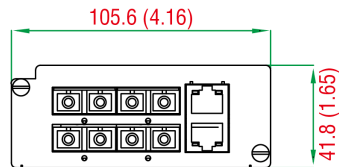
Unit: mm (inch)



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

© Moxa Inc. All rights reserved. Updated Nov 12, 2018.

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.