

# 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
	Wavelength	Typical (nm)	1300	
		TX Range (nm)	1260 to 1360	
		RX Range (nm)	1100 to 1600	
	Optical Power	TX Range (dBm)	-10 to -20	
		RX Range (dBm)	-3 to -32	
		Link Budget (dB)	12	
		Dispersion Penalty (dB)	3	
<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) &gt; 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.)
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### 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)
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### MTBF

Time	IM-6700A-2MSC4TX/2MST4TX/2SSC4TX: 7,356,096 hrs IM-6700A-4MSC2TX/4MST2TX/4SSC2TX: 4,359,518 hrs IM-6700A-6MSC/6MST/6SSC: 3,153,055 hrs IM-6700A-8PoE: 3,525,730 hrs IM-6700A-8SFP: 5,779,779 hrs IM-6700A-8TX: 28,409,559 hrs
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Standards	Telcordia (Bellcore), GB
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### Warranty

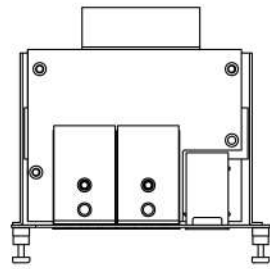
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

### Package Contents

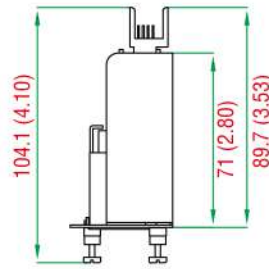
Device	1 x IM-6700A Module Series module
Documentation	1 x warranty card

## Dimensions

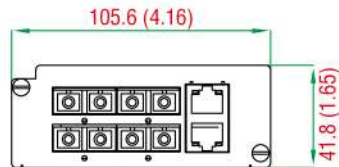
Unit: mm (inch)



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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