



### Features

- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX/100Base-FX and IEEE 802.3x flow control
- Provides media conversion for TP and Fiber optic media types
- Extends network span from 2km (MMF) to 20km (SMF)
- 10/100Mbps, auto-negotiation on TP port
- Supports back-pressure-based flow control for Half-Duplex and pause-frame-based flow control for Full-Duplex
- Wire speed store and forward technology

**OPMA-xxx-BA** series is 10/100Mbps Fast Ethernet Converter. It provides two 10/100M ports switch auto-MDI/MDIX and one 100M fiber port which can extend the network radii. It complies with IEEE 802.3 and IEEE 802.3u standards. It enables network managers to connect 10 Mbps and 100 Mbps twisted pair network segments and active equipment to fiber optic cabling more cost-effectively than ever. WDM Technology Combines Dual Fiber Cables into Single Fiber. Greatly save the Installation cost of Expensive Fiber Cable. Both a media and data rate converter. It features 10/100 auto-negotiation on the twisted pair port while the fiber port operates at 100 Mbps. This converters are ideal for any premises FTTH, LAN-to-LAN or LAN-to-WAN fiber networking applications.

**Ordering Information**

<i>Part Number</i>	<i>Description</i>
OPMA-M02-BA-CU-A1	2 port 10/100Base-TX + 1 port 100M FX MMF 2km SC connector
OPMA-M02-BA-CU-A2	2 port 10/100Base-TX + 1 port 100M FX MMF 2km ST connector
OPMA-S20-BA-CU-A1	2 port 10/100Base-TX + 1 port 100M FX SMF 20km SC connector
OPMA-S40-BA-CU-A1	2 port 10/100Base-TX + 1 port 100M FX SMF 40km SC connector
OPMA-S60-BA-CU-A1	2 port 10/100Base-TX + 1 port 100M FX SMF 60km SC connector
OPMA-S80-BA-CU-A1	2 port 10/100Base-TX + 1 port 100M FX SMF 80km SC connector
OPMA-B20-BA-CU-A1	2 port 10/100Base-TX + 1 port 100M FX Single Fiber BWDM Converter (TX1310/RX1550) 20km SC connector
OPMA-D20-BA-CU-A1	2 port 10/100Base-TX + 1 port 100M FX Single Fiber BWDM Converter (TX1550/RX1310) 20km SC connector



**Specifications**

<b>Optical Interface:</b>	Connector	1x9 (SC, ST)
	Data rate	100Mbps
	Duplex mode	Full duplex
	Fiber	MM 50/125μm, 62.5/125μm SM 9/125μm
	Distance:	MM 2km
		SM 20/40/60/80km
		WDM 20km
Wavelength	MM 1310nm , SM 1310,1550nm	
	WDM 1310Tx/1550Rx (type A) 1550Tx/1310Rx (type B)	
<b>Electrical Interface:</b>	Connector	RJ45
	Data rate	10Mbps, 100Mbps
	Duplex mode	Half / Full duplex
	Cable	10Base-T Cat.3, 4, 5, UTP
		100Base-TX Cat.5, 5e or higher
<b>Standard</b>	IEEE 802.3, IEEE 802.3u, IEEE802.3x	
<b>Indications</b>	LED at Power, Link/Act, Speed, Duplex/Collision	
<b>Power Input</b>	100 to 240VAC, 50 to 60Hz	
<b>Temperature</b>	0~50°C (Operating) -10 ~ 70°C (Storage)	
<b>Humidity</b>	10 ~ 90% non-condensing	
<b>Power Supply</b>	External Power Adapter (DC 5V/2A)	
<b>Dimensions(D*W*H)</b>	94 x 70.8 x 26.7mm	
<b>Weight</b>	350g	
<b>Compliance</b>	CE, FCC, LVD, RoHS	
<b>MTBF</b>	65,000 hrs (25°C)	