



Fibrain's FMU-AMA12G-85S-55M-E media converter is an ideal solution for users which wants to extend Gigabit/Fast Ethernet network range beyond 100 meters limit. This device works with multimode fiber. Auto-negotiation enabled copper interface can support 10/100/1000Mbps speeds and auto MDI/MDIX. FMU-AMA12G-85S-55M-E can be installed in Fast Ethernet and Gigabit Ethernet networks. For packet switching between TX and FX interfaces store-and-forward architecture was used, support for VLAN tagged frames. Media converter is equipped with high quality optical transceiver which assures stable and error free transmission over 550m long optical line. This device is powered from external AC/DC power adaptor (220V AC/5V DC included, EU version). This media converter can also be installed in rack mounted chassis FR-16C-AC or FR-16C-DC which can accommodate up to 16 units (metal enclosure must be removed before installation in FR-16C-XX). Rack mounted chassis is 2U high and is equipped with redundant power supply.

## Fiber Media Converter FMU-AMA12G-85S-55M-E



Part number: FMU-AMA12G-85S-55M-E

### Key features:

- 10/100/1000Base-T to 1000Base-SX signal conversion
- Transmission distance: up to 550m (OM3)
- Multimode optical transceiver (850nm)
- Passive cooling
- High quality components
- MAC address auto-learning and auto-updating
- Store-and-forward architecture
- Supporting FDX flow control or HDX back pressure
- Supporting Auto-negotiation for RJ45 interface
- Supporting frames up to 9k bytes long
- LED status display:
  - Port activity,
  - Power
  - Transmission speed
  - Copper interface link
  - Optical interface link
- MTBF time exceeding 500 000 hours



## Technical specification:

<b>Transmission speed:</b>	10/100/1000Mbps		
<b>Standards compliance:</b>	IEEE802.3	10Base-T Ethernet,	
	IEEE802.3u	100Base-TX Fast Ethernet,	
	IEEE802.3ab	1000Base-T Gigabit Ethernet ,	
	IEEE802.3z	1000Base-LH Gigabit Ethernet	
	IEEE802.3x	Flow control	
<b>Wavelength:</b>	850nm multimode		
<b>Certificates:</b>	CE, RoHS		
<b>Estimated reach:</b>	Optical port:	up to 550m (OM3 50/125um)	
	Port RJ45:	CAT5: 100m	
<b>Optical parameters:</b>	<b>TX power</b>		<b>RX sensitivity</b>
	-9.5 dBm ~ -3 dBm		-18 dBm
<b>Ports:</b>	Copper:	RJ45	
	Optical:	SC Duplex	
<b>Conversion method:</b>	store-and-forward		
<b>Delays:</b>	<10us		
<b>BER:</b>	<1/1000000000		
<b>LED Display:</b>	PWR, FXL, TXL, 100M, 1000M, FDX		
<b>Power:</b>	External power supply: 220V AC / 5V DC (1000mA)		
<b>Power consumption:</b>	<5W		
<b>Operating environment:</b>	Temperature:	0 ~ 50 °C	
	Humidity:	5%~90% noncondensing	
<b>Storage environment:</b>	Temperature:	-40 ~ 70 °C	
	Humidity:	5%~90% noncondensing	
<b>Case material:</b>	Aluminium		
<b>Weight:</b>	0.15kg netto; 0.40kg brutto		
<b>Dimensions:</b>	25mm (height) x 70mm (width) x 93mm (depth)		

Specification is subject to change without end user notification. Submitted pictures are for reference only. Actual product look may differ from presented on pictures

\* - without optical transceiver

Rack chassis sold separately (ref number. FR-16C-AC / FR-16C-DC)