

Fibrain's FGMS-S55L-xx0 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 singlemode fiber. Auto-negotiation enabled copper interface can support 10/100/1000Mbps speeds and auto MDI/MDIX. FGMS-S55L-xx0 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 40/80/120km** 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 of 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.



Key features:

- 10/100/1000Base-T to 1000Base-LX signal conversion
- Transmission distance: up to 40/80/120km**
- Multimode SFP Module (1550nm)
- 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:

Transmission speed:	10/100/1000Mbps			
Standards compliance:	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		
Wavelength:	1550nm singlemode			
Certificates:	CE, RoHS			
Estimated reach:	Optical port:	up to 40/80/120km**		
	Port RJ45:	CAT5: 100m		
Optical parameters:	Model	Transmission power	Receiver sensivity	Overload
	FGMS-S55L-040	-5 dBm ~ 0 dBm	-24 dBm	-3 dBm
	FGMS-S55L-080	-2 dBm ~ +3 dBm	-24 dBm	-3 dBm
	FGMS-S55L-120	0 dBm ~ +5 dBm	-32 dBm	-9 dBm
Ports:	Copper:	RJ45		
	Optical:	LC Duplex		
Conversion method:	store-and-forward			
Delays:	<10us			
BER:	<1/1000000000			
LED Display:	PWR, FXL, TXL, 100M, 1000M, FDX			
Power:	External power supply: 220V AC / 5V DC (1000mA)			
Power consumption:	<5W			
Operating environment:	Temperature:	0 ~ 50 °C		
	Humidity:	5%~90% noncondensing		
Storage environment:	Temperature:	-40 ~ 70 °C		
	Humidity:	5%~90% noncondensing		
Case material:	Aluminium			
Weight:	0.15kg netto; 0.40kg brutto			
Dimensions:	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

** - model dependent

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