

Fibrain's FMU-ASA12G-31S-0x0-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 singlemode fiber. Auto-negotiation enabled copper interface can support 10/100/1000Mbps speeds and auto MDI/MDIX. FMU-ASA12G-31S-0x0-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 10/20/30/50/80km** 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.

Fiber Media Converter FMU-ASA12G-31S-0x0-E



Part number: FMU-ASA12G-31S-0x0-E

Key features:

- 10/100/1000Base-T to 1000Base-LX/ZX/ZR signal conversion
- Transmission distance: up to 10/20/30/50/80 km **
- Singlemode optical transceiver (1310 or 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: | 1310nm or 1550nm singlemode, depending on distance reach | | | |
| Certificates: | CE, RoHS | | | |
| Estimated reach: | Optical port: | up to 10/20/30/50/80km** | | |
| | Port RJ45: | CAT5: 100m | | |
| Optical parameters: | Model | TX power | RX sensitivity | Overload |
| | FMU-ASA12G-31S-010-E | -9.5 dBm ~ -3 dBm | -21 dBm | -3 dBm |
| | FMU-ASA12G-31S-020-E | -6 dBm ~ -1 dBm | -21 dBm | -3 dBm |
| | FMU-ASA12G-31S-030-E | -3 dBm ~ 2 dBm | -23 dBm | -3 dBm |
| | FMU-ASA12G-31S-050-E | -1 dBm ~ 3 dBm | -24 dBm | -3 dBm |
| | FMU-ASA12G-31S-080-E | 0 dBm ~ 5 dBm | -24 dBm | -3 dBm |
| Ports: | Copper: | RJ45 | | |
| | Optical: | SC 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)