

FMU-ASR01M-31S-xxx-E series product, dual fiber desktop type media converter is designed to transmit and receive 10/100 Mbps data over singlemode optical fiber. The electrical interface will Auto-Negotiate to 10 Mbps or 100Mbps Ethernet rate without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate. LED indicators are provided for rapidly ascertaining equipment operating status. This standalone media converter can be installed on the standard 19" 2U rack with 16 slots (sold separately). For power redundancy rack chassis has built-in two power supplies which can be connected to independent power sources.



Product number: FMU-ASR01M-31S-xxx-E

Key Features:

- Conversion between 10/100Base-TX and 100Base-FX
- Transmission distance up to 120km (version dependent)
- Singlemode transceiver (1310nm or 1550nm)
- Passive cooling system
- Only high quality transceivers are used
- Automatic MAC address learning and aging
- User can choose between store-and-forward or straight-through transmission mechanism
- FDX flow control or HDX back pressure
- Speed autonegotiation for RJ45 port, with flow control mechanism
- Hardware switches for custom configuration
- Link State Forward function
- Support for frames with length up to 1600 bajtów
- Information about port states are presented on LEDs:
 - Port activity,
 - Power supply
 - Transmission speed
 - Copper link state
 - Optical link state
 - Duplex state (full/half)
- MTBF exceeding 500 000 hours



Technical parameters:

| | | | | |
|-----------------------------|--|--|-----------------------|--------------------|
| Transmission speed: | 10/100Mbps | | | |
| Standard compliance: | IEEE802.3 | 10Base-T Ethernet, | | |
| | IEEE802.3u | 100Base-TX Fast Ethernet, | | |
| | IEEE802.3u | 100Base-FX Fast Ethernet, | | |
| | IEEE802.3x | Flow control | | |
| Optical wavelength: | 1310nm or 1550nm (depends on model) | | | |
| Certificates: | CE, RoHS | | | |
| Estimated reach: | Optical port: | 25/40/60/80/100/120km (depends on model) | | |
| | RJ45 port: | CAT5: 100m | | |
| Optical parameters: | Model | TX Power | RX Sensitivity | RX Overload |
| | FMU-ASR01M-31S-020-E | -14dBm ~ -3 dBm | -32 dBm | -3 dBm |
| | FMU-ASR01M-31S-040-E | -8 dBm ~ -3 dBm | -34 dBm | -3 dBm |
| | FMU-ASR01M-31S-060-E | -5 dBm ~ 0 dBm | -36 dBm | -3 dBm |
| | FMU-ASR01M-31S-080-E | -2 dBm ~ 3 dBm | -36 dBm | -3 dBm |
| | FMU-ASR01M-31S-100-E | 0 dBm ~ 4 dBm | -36 dBm | -3 dBm |
| | FMU-ASR01M-31S-120-E | 0 dBm ~ 5 dBm | -36 dBm | -3 dBm |
| Ports: | Copper: | RJ45 | | |
| | Optical: | SC Duplex | | |
| Conversion mode: | store-and-forward, straight-through | | | |
| Delays: | <10us store-and-forward, <1us straight-through | | | |
| BER: | <1/1000000000 | | | |
| LED: | PWR, FPL, TPL, TRX, FRX, 10/100M | | | |
| Power: | External DC 5V/1A, included in package | | | |
| Power consumption: | <5W | | | |
| Working environment: | Temperature: | 0 ~ 50 °C | | |
| | Humidity: | 5%~90% non condensing | | |
| Storage environment: | Temperature: | -40 ~ 70 °C | | |
| | Humidity: | 5%~90% non condensing | | |
| Enclosure material: | Aluminium | | | |
| Weight: | 0.15kg netto; 0.40kg brutto | | | |
| Dimensions*: | 28mm (height) x 92mm (width) x 117mm (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)