

FMU-ABR01M-530-0XX-E series product, single fiber (WDM BiDi) desktop type media converter is designed to transmit and receive 10/100 Mbps data over single strand of 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.



Part number: FMU-ABR01M-530-0XX-E

Key Features:

- Conversion between 10/100Base-TX and 100Base-FX
- Transmission distance up to 80km (version dependent)
- Singlemode BiDi WDM transceiver (TX:1550/RX:1310)
- Passive cooling system
- Single strand of fiber used as optical medium for bidirectional transmission
- 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
- VLAN pass-through
- 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



Parametry techniczne:

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:	TX: 1550nm / RX: 1310nm			
Certificates:	CE, RoHS			
Estimated reach:	Optical port:	20/40/60/80km (depends on model)		
	RJ45 port:	CAT5: 100m		
Optical parameters:	Model	TX Power	RX Sensitivity	RX Overload
	FMU-ABR01M-530-020-E	-14 dBm ~ -3 dBm	-32 dBm	-3 dBm
	FMU-ABR01M-530-040-E	-8 dBm ~ 0 dBm	-34 dBm	-3 dBm
	FMU-ABR01M-530-060-E	-5 dBm ~ 0 dBm	-36 dBm	-3 dBm
	FMU-ABR01M-530-080-E	-3 dBm ~ 1 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:	<3W			
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)