

Managed Fast Ethernet Media Converter



FCAT100-M
Stand-alone

FCAT100-M is a standards based, SNMP managed single-channel Fast Ethernet Media converter stand-alone unit. It offers one auto-sensing 10/100Mbps copper port and one 100Base-X fiber port. **FCAT100-M** provides rich operational management feature and Link Fault Propagation.

Key Features

- Single channel stand-alone Fast Ethernet Media Converter
- 1 no 10/100 Mbps Copper ports complying to IEEE 802.3 and 802.x standards
- 1 no 100Base-X Fiber port
- Auto-negotiating for Fast Ethernet copper port
- Supports flow control
- Jumbo frame Enable/Disable per Port - upto 9000 bytes
- In-band Management
- RJ 45 and SC Fiber connectors
- Half 19" size
- Supports both MMF, SMF & SF optical requirements
- Transparent pass through for non-tagged and Tagged Data Traffic.
- DHCP Client RFC Support for acquiring IP address for Management or Static IP address assignment.
- Transparent Pass through(Enable/Disable) option for Flow Control
- Link Fault Propagation

Management

- Console port for CLI
- SNMP v1/v2 protocol support
- IP address for management
- Telnet support
- Dual Application image (Primary & Secondary)
- Application and BSP Upgrade through TFTP
- Dying gasp alarm and auto-clear on resumption
- HTTP Web configuration

Specifications

Ports

10/100 BASE-T Fast Ethernet (Copper) port	: 1 no
100BASE-X Fibre	: 1 no
RJ45 based console port	: 1 no

Connectors

Optical	: SC
Electrical	: Shielded RJ45, Full / half duplex
Console port	: RJ45

Standards compliance

IEEE 802.3

Ethernet configuration:

- Auto negotiation
- Flow control
- Admin status
- Support for configuring following characteristics for Management
 - IP Address,
 - SNMP configuration

Supports :

- Config-upload,
- Enable/Disable module status
- Config-save,
- Config-restore,
- Reboot
- Enable/Disable trap control
- Display / config SNMP

- SNMP v2c : Support for configuring SNMP read-only, read-write and trap communities

SNMP Trap supported ...

- Error
- Image upgrade
- Link Up / Down status
- BSP Upgrade

Management features

- SNMP v1 /v2 Agent and MIB Support
- Command line configuration interface through locally attached UART terminal
- CLI over Telnet support for Remote Configuration
- Admin and user support. Support for password change
- Support to upload and download configuration Files - using TFTP protocol Downloaded Configuration data would only be applied on next reboot
- Dual Configuration File Support allows to use either Primary or Secondary Configuration files
- Dual Application Image Support : Option to boot from Primary or Secondary Image on Power up
- Application/BSP Image upgrade through network using TFTP protocol
- Support for setting & reading Current time and Boot time
- IP address/Default Gateway/net mask settings

Indicators:

PWR (green)	: Power status
TST (yellow)	: Test status
Link(LNK) & Activity (ACT)	: LED indications for management Ethernet port

Status display :

· Firmware Application Image version, BSP Version, Hardware version, DHCP

Power

AC input	: 100-240 VAC, 50/60Hz
Wattage (max)	: 6 Watts
Current (max)	: 100 mA

- **Operating Temp** : 0°– 50°C / 32°– 122°F

- **Humidity** : 10% to 90%, non-condensing

- **Dimensions (HxWxD)** : 44 x 190 x 122 (mm)

- **Half 19-inch rack mount**

Fiber optic specification

Module Type	Wavelength (nm)	Fiber Type (µm)	Typical TX Power (dBm)	Typical Rx Sensitivity (dBm)	Typical Range (Km)
MM	850	62.5/125 Multimode	-6.5	-20	2
MM	850	50/125 Multimode	-6.5	-20	2
MM	1310	62.5/125 Multimode	-14	-26	2
SM15	1310	9/125 Single mode	-12	-29	15
SM15	1550	9/125 Single mode	-12	-27	15
SM40	1310	9/125 Single mode	-2.5	-29	40
SM60	1310	9/125 Single mode	-2.5	-29	60
SM80	1310	9/125 Single mode	2.5	-30	80
SM80	1550	9/125 Single mode	-2.5	-29	80
SM100	1550	9/125 Single mode	0	-30	100
SF15	1310/1550	9/125 Single mode SF	-9.5	-27	15
SF40	1310/1550	9/125 Single mode SF	-2.5	28	40
SF100	1490/1550	9/125 Single mode SF	-2	28	100

Ordering FCAT 100-M

	FCAT100-M/SA/#/AC	Managed Single channel Fast Ethernet Media converter, 1-port 10/100Base-T and 1-port 100BaseFx, 230V AC Mains
#	MM 850 for (62.5/125) MM fiber 2 Km	
	MM 850 for (50/125)MM fiber 2 Km	
	MM 1310 for MM fiber 2 Km	
	SM15 (1310) for SC fiber 15 Km	
	SM15 (1550) for SC fiber 15 Km	
	SM40 (1310) for SC fiber 40 Km	
	SM60 (1310) for SC fiber 60 Km	
	SM80 (1310) for SC fiber 80 Km	
	SM80 (1550) for SC fiber 80 Km	
	SM100 (1550) for SC fiber 100 Km	
	SF15 (1310Tx / 1550Rx) for SM fiber 15 Km	
	SF40 (1310Tx / 1550Rx) for SM fiber 40 Km	
	SF100 (1490Tx / 1550Rx) for SM fiber 100 Km	



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