FCAT® 1000

MROTEK™
Access Every Network

Gigabit Ethernet Media Converter

FCAT® 1000
Stand-alone

The **FCAT®1000** series of Gigabit Ethernet Media converters provide media conversion from 1000Base-T to 1000Base-FX on multimode or single mode fiber ranging from 500mtrs to 40kms. Available in Stand-alone, AC/DC Power supplies and a versatile range of Fiber Optic interfaces, **FCAT®1000** series becomes a complete offering to suit Carriers, Service Providers and Enterprises for wide range of deployments.

Key Features

- Single channel stand-alone media converter
- Media Conversion from 1000BASE-T to 1000BASE-X
- Auto MDI-I/MDI-X copper Ethernet port
- RJ-45 connector for 1000BASE-T port
- SC connector for 1000BASE-X port
- Link & Activity LED indications
- Supports multi mode or single mode fiber
- Single mode option available at 10km & 40km
- Internal auto-ranging AC or DC power supply

Description

Ethernet is now poised to be the preferred broadband access technology between carrier and customer networks. It will save carriers a fortune in CAPEX and help them deliver more bandwidth which means more customers and more revenue than today.

FCAT®1000, the Unmanaged Gigabit Ethernet Media converter from MRO-TEK supports a variety of advanced features and flexible interface options, giving service providers the power to quickly and profitably deploy Ethernet services. Enterprise customers can leverage existing Gigabit Ethernet infrastructure for long haul connects.

FCAT®1000 is a rugged & reliable Gigabit Ethernet media converter providing seamless extension of Gigabit Ethernet on single mode/multi mode fiber ranging from 0.5 kms to 40 kms.
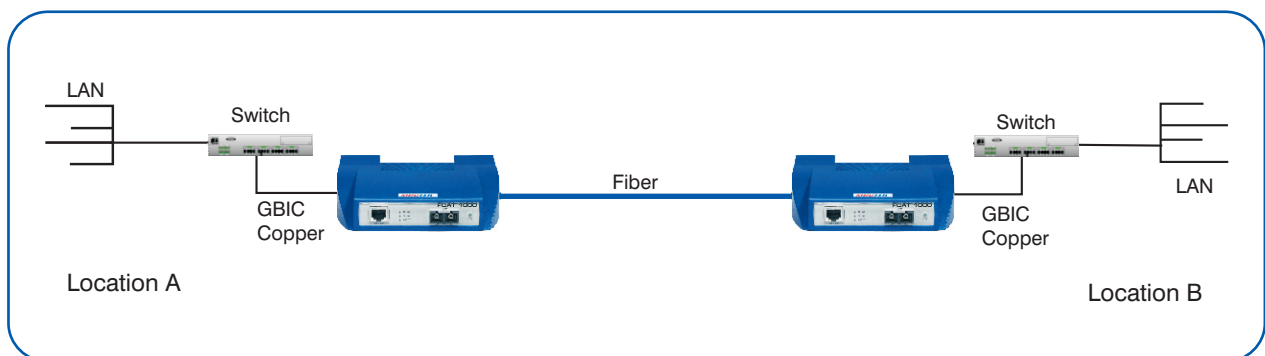
The flexibility to adapt to different connectivity needs make **FCAT®1000** an essential component of any network design.

FCAT®1000 brings the long haul advantages of single mode fiber to Gigabit Ethernet backbones and campus LAN's.

The **FCAT®1000,** when operated either in stand-alone or in a rack chassis, achieves the power of Gigabit Ethernet to speed up network performance, while delivering ease of use and plug-and-play installation.

Application

FCAT®1000 is designed for demanding network environments to provide high speed and reliable connects. It can typically be used in a LAN, MAN or in a Campus Network.

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Technical Specifications

- **Standards Compliance :**
  IEEE 802.3ab, IEEE 802.3z, 1000BASE-T,
  1000BASE-X

- **1000BASE-T port :**
  Shielded RJ-45
  Half/Full Duplex support
  Auto MDI-I / MDI-X

- **1000BASE-X port :**
  SC Connector

- **Power**
  Stand-alone
      100 to 250 VAC, 10 W
      -36 to -72 VDC, 10 W
  Rack
      100 to 250 VAC, 200W
      -36 to -72 VDC, 200 W

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

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

- **Physical Dimensions :**
  Stand-alone : 156 x 154 x 43 mm
  Rack-12   : 482 x 267 x180 mm

Fiber optic specifications

Module Type	Wavelength (nm)	Fiber Type (μm)	Typical Tx Power (dBm)	Typical Rx Sensitivity (dBm)	Typical Range (Kms)
MM	850	62.5/125 Multimode	-6	-14	0.22
MM	850	50/125 Multimode	-6	-14	0.5
SM15	1310	9/125 Single mode	-6	-18	15
SM40	1310	9/125 Single mode	1	-19	40
SF15	1310/1550	9/125 Single mode SF	-6	-18	15
SF40	1310/1550	9/125 Single mode SF	0.5	-19	40

Ordering FCAT® 1000

	FCAT1000/SA/#/SC/~		**Single channel Standalone 1000BASE-T to 1000BASE-X Media converter**
	FCAT-RACK-12/?		**19" enclosure for 12 rack line cards**
	FCAT1002/R/#/SC		**Dual channel 1000BASE-FX media converter line card for FCAT1000 Racks**
#	**MM** for MM fiber	**?**	**230** for one AC power supply
	SM15 for SM fiber 15Km		**230/230** for two AC power supplies
	SM40 for SM fiber 40km		**48** for one DC power supply
	SF15 (1310 Tx/1550 Rx) for Single Fiber 15km		**48/48** for two DC power supplies
	SF15 (1550 Tx/1310 Rx) for Single Fiber 15km		
	SF40 (1310 Tx/1550 Rx) for Single Fiber 40km	**~**	**AC** for AC supply
	SF40 (1550 Tx/1310 Rx) for Single Fiber 40km		**DC** for DC supply

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