FVM-1000 Version: 1

RJ45 to SFP Managed Fast Ethernet Media Converter

FVM-1000 is remote Managed Fast Ethernet fiber media converter with OAM functions developed by our company. It can convert Ethernet signal between 10/100Base-Tx and 100Base-FX, It supports both half-duplex and full-duplex operations and a variety of fiber options.

Remote devices can be managed by fiber-connected OAM media converter or OAM switch when deployed as a stand-alone solution. It incorporates an easy to use Web user interface for operation, administration and maintenance, both locally and remotely. By offering IEEE802.3ah OAM compliance, this converter can be linked to any IEEE802.3ah compliant fiber switch and support loop back and dying gasp functions. All functions of this converter and the remotely connected converter can be configured and monitored via Web management, including bandwidth control, duplex, speed and VLAN configuration.

Key Features

- Built-in LFP (Link Fault Pass-through) (LLCF/LLR) Technology
- Web-based and SNMP Management
- IEEE 802.3x Flow Control protects against lost packets for reliable data transmission
- Supports VLAN (tag-based, Q-in-Q)

Specifications

System Specifications

Standards & Protocols:
IEEE802.3 10Base-T Ethernet,
IEEE802.3u 100Base-Tx Fast Ethernet,
IEEE802.3u 100Base-Fx Fast Ethernet,
IEEE802.3x Flow Control,
IEEE802.3ah OAM

Connectors and Cabling:
1 x RJ45 Ethernet port,
1 x SFP slot

Wavelength(nm):
depend on SFP transceiver

Indicator:
PWR (power supply),
FX LINK/ACT (optical link action)
FDX (full duplex),
TX LINK/ACT (TP cable link/action)
TX 100 (TP cable rate 100M),
LFP(LFP function enable/disable)

Transmission Method:
store and forward or cut-through by software configure

Power Input:
internal: 100~240VAC in, 5V@2A output

Features

General:
1. 10/100Mbps auto-sensed, facilitating network upgrade
2. Support LFP function
3. Built-in efficient switching core to implement flow control and reduce broadcast packets
4. Full-duplex and half-duplex auto-sensed
5. Support Hop-swap SFP slot
6. Support Jumbo frame up to 9k bytes
7. Support Q-in-Q function, Optical port and Ethernet port can be set separately as dual Tag ports, and can be set as ISP Tag and ISP Tag TPID
8. Support configure the operation mode of each port on local and remote devices, including port speed, full/half-duplex, and flow control, etc, and can display the real-time status of each port
9. Support bandwidth-limiting function: with the step of 64kps, the bandwidth can be set between 0Mbps and 100Mbps
10. Support 4 kinds of 802.3ah OAM functions: Discover of OAM, MIB variable response, OAM Loopback, Dying Gasp alarm
11. Offer MIB library files, support OpenView?Snmpc, and other softwares

Performance

Operating Distance:
depend on SFP transceiver

Environment

Temperature (°C):
-10~55

Humidity (Non-condensing):
5%~90% non-condensing

Deployment:
Desk, Wall mounted

Physical Specifications

Dimensions (W x D x H mm):
127mm×156mmx32mm

Weight (g):
700

Reliability

MTBF:
30000hours

Approval and Compliance

EMI/EMS:
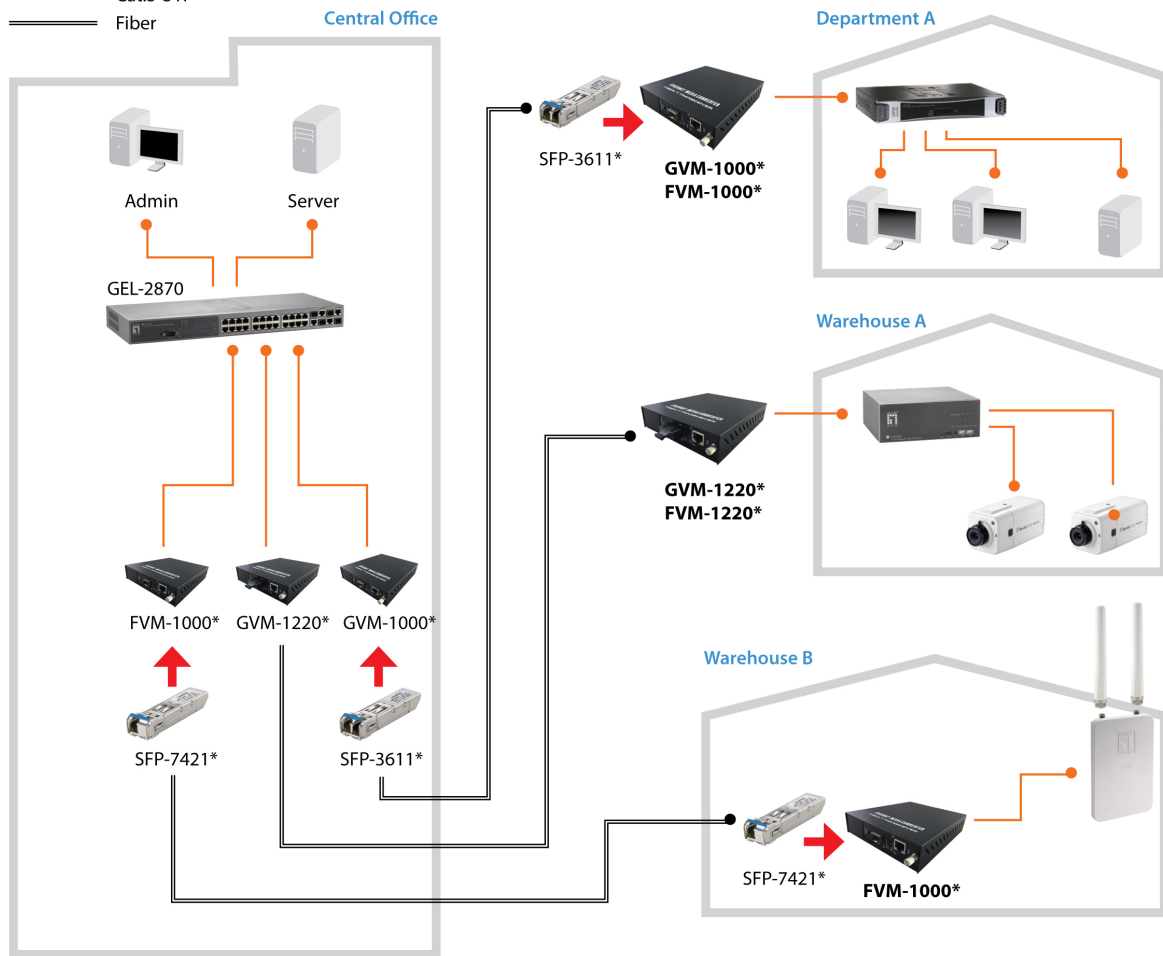FCC, CE, RoHS

Diagram

Dimension Diagram

— Cat.5 UTP
═ Fiber

Central Office

Admin   Server

GEL-2870

SFP-3611*   GVM-1000*
FVM-1000*

Department A

FVM-1000*   GVM-1220*   GVM-1000*

SFP-7421*   SFP-3611*

GVM-1220*
FVM-1220*

Warehouse A

Warehouse B

SFP-7421*   FVM-1000*

*In above example diagram, converter modules at local and remote ends should be paired for proper connectivity, and the distance mainly depends on cable and transceiver selection accordingly.

Order Information

FVM-1000

Package Contents

FVM-1000
Resource CD (User Manual)