



GVM-1000 Version: 1

RJ45 to SFP Managed Gigabit Media Converter

GVM-1000 series is remote Managed Gigabit Ethernet fiber media converter with OAM functions developed by our company. It can convert Ethernet signal between 10/100/1000Base-T and 1000Base-X, 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

- Multi-mode fiber with SC connector for transmission of up to 500m
- IEEE 802.3x Flow Control protects against lost packets for reliable data transmission
- Supports VLAN (tag-based, Q-in-Q)
- Web-based and SNMP Management
- Support Operations, Administration, and Maintenance (OAM) mechanisms
- Built-in LFP (Link Fault Pass-through) (LLCF/LLR) Technology

Specifications

System Specifications

Standards & Protocols:

IEEE802.3 10Base-T Ethernet
 IEEE802.3u 100Base-TX Fast Ethernet
 IEEE802.3ab 1000Base-T Giga Ethernet
 IEEE802.3z 1000Base-X Giga Ethernet
 IEEE802.3x Flow Control
 IEEE802.3ah OAM

Port:

1 x RJ45 Ethernet port,
 1 x SFP slot

Indicator:

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



Wavelength (nm):
depend on SFP transceiver

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

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

Features

General:

1. 10/100/1000Mbps 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 1000Mbps
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

Installation:
Desk, Wall mounted

Physical Specifications

Dimensions (W x D x H mm):
127mm×156mm×32mm

Weight (g):
700

Reliability

MTBF:
30000hours

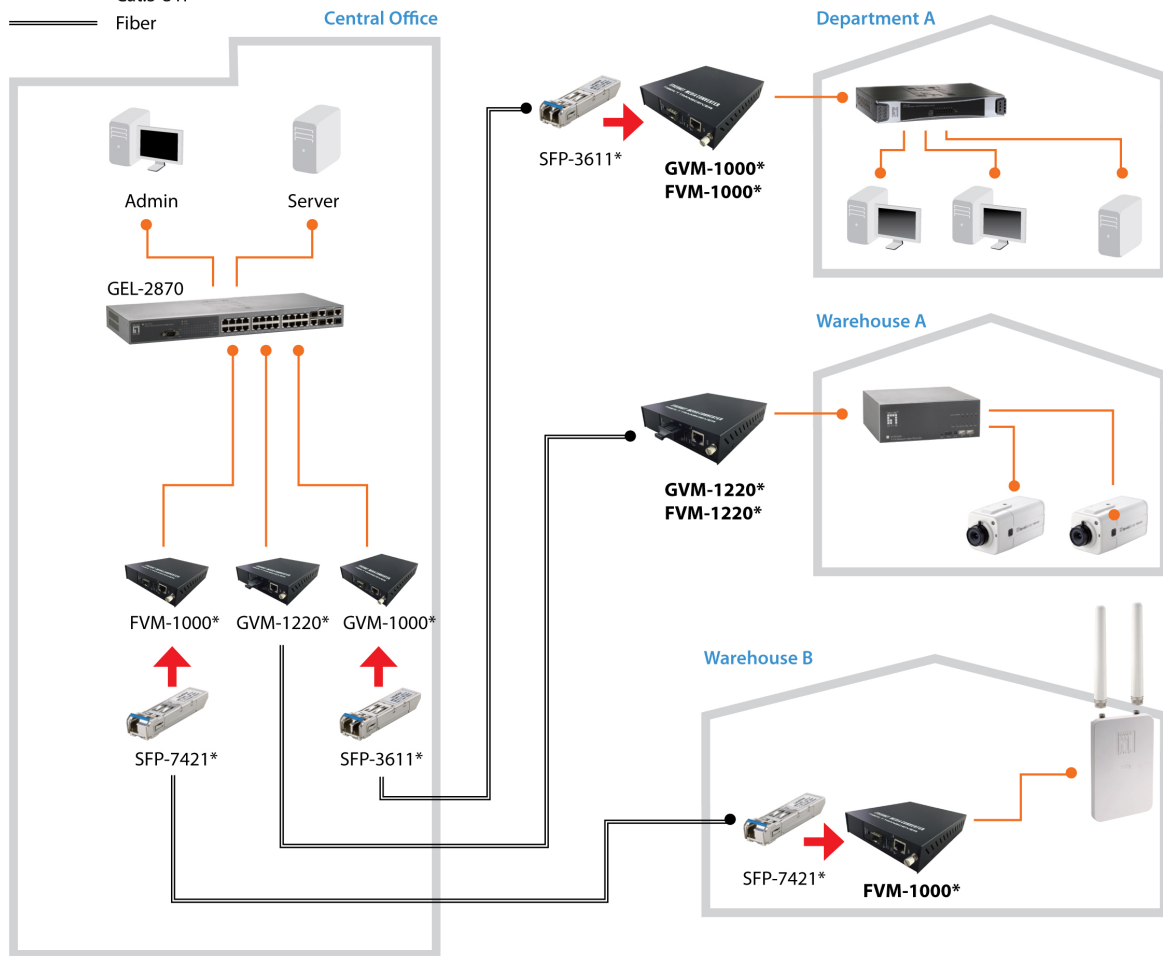
Approval and Compliance

EMI/EMS:
CE, RoHS, FCC

Diagram

Dimension Diagram

— Cat.5 UTP
= Fiber



*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

GVM-1000

Package Contents

GVM-1000

Resource CD (User Manual)

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