



FVM-1220 Version: 1

## RJ45 to SC Managed Fast Ethernet Media Converter, Single-Mode Fiber, 20km

FVM-1220 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. It is double fiber, single mode, 20km media converter.

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

- Web-based and SNMP Management
- Built-in LFP (Link Fault Pass-through) (LLCF/LLR) Technology
- 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 SC/FC/ST fiber connector

##### Wavelength(nm):

1310nm

##### 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(LFB 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 SC/ST/FC connector
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:**

20km

## 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×156mm×32mm

**Weight (g):**

720

## Reliability

**MTBF:**

30000hours

## Approval and Compliance

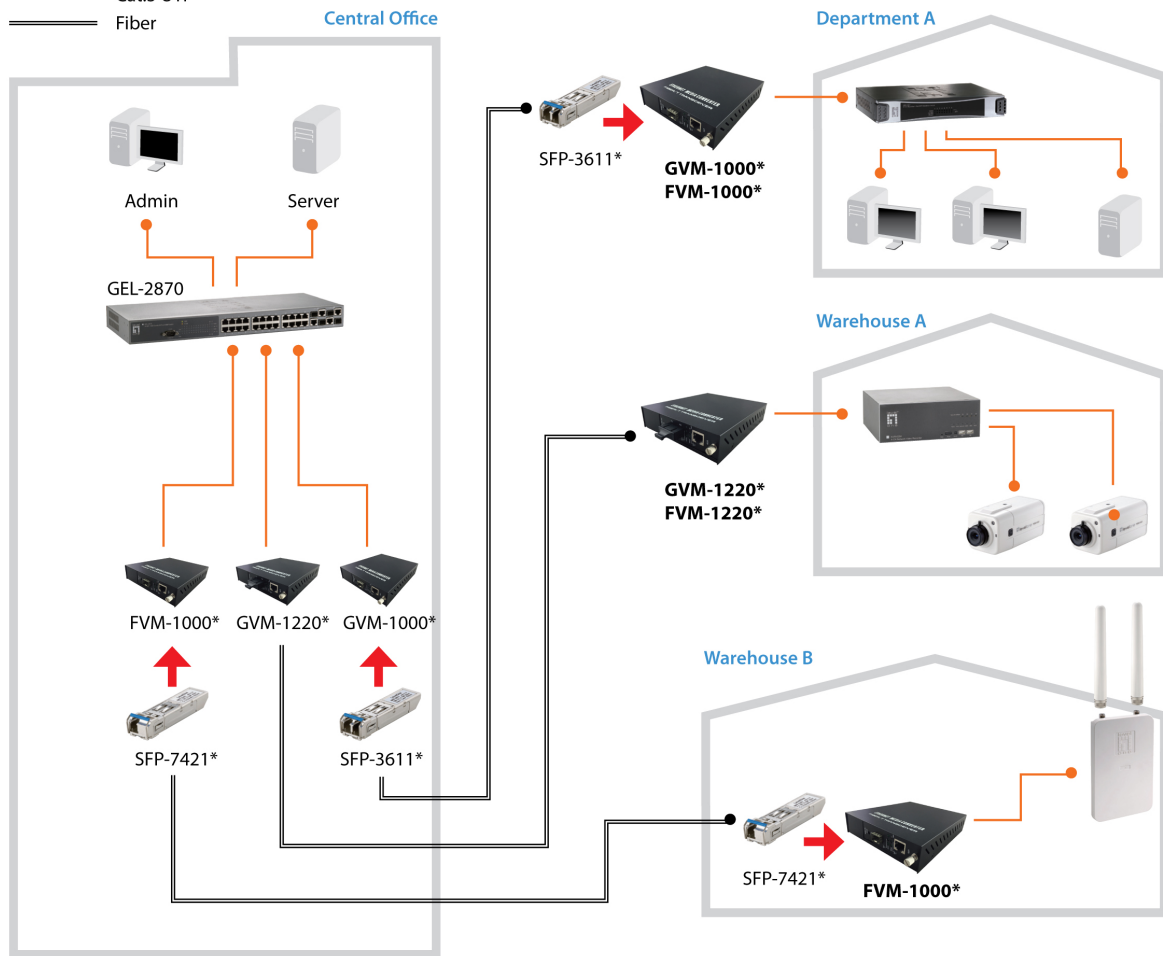
**EMI/EMS:**

FCC, CE, RoHS

# 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

FVM-1220

## Package Contents

FVM-1220

Resource CD (User Manual)

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