



24 FE + 4 GE Combo SFP L2 SNMP Switch



H/W Version: 1

Products Overview

LevelOne FGL-2870 is a cost-effective stackable Layer 2 SNMP Ethernet switch with 24 100Base-TX Fast Ethernet ports, 4 Gigabit Ethernet RJ-45 Combo ports which associated with SFP (Small Form Factor Pluggable) slots. It provides reliable and expandable solutions for large workgroups or backbones. Features IP clustering which allows administrators to use a single IP address to manage a virtual stack of up to 36 switches.

FGL-2870 is packed with features including: Telnet, Web and SNMP management, QoS, Port Security, etc. to increase the reliability to the network edge.

Enhanced Security

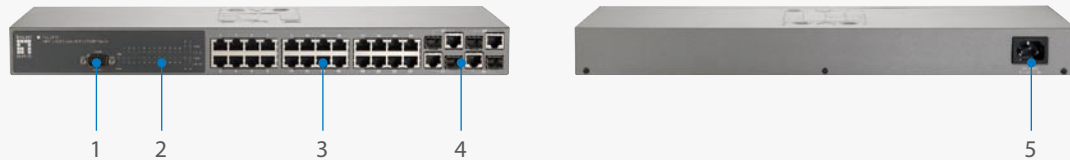
FGL-2870 provides port security based on MAC address to ensure maximum access to the ports, limits

the number of devices which are using the ports and protects against MAC flooding.

Security Shell (SSH) and Secure Sockets Layer (SSL/HTTPS) encrypts the network information via Telnet and Web, providing a secure network management. TACACS+/RADIUS Authentication enables a centralized control of the switch and avoids unauthorized users from altering the configuration.

Comprehensive QoS

LevelOne FGL-2870 offers 4 egress queues per port, which enables differentiated management of up to 4 traffic types. Traffic is prioritized according to 802.1p and DSCP, giving optimal performance to real-time applications such as voice and video.



- 1. Console Port
- 2. LE Ds
- 3. Fast Ethernet RJ-45 Ports
- 4. Combination Gigabit Ports
- 5. Power Socket

Key Features

- 24x 10/100Base-TX + 4x Gigabit Combo (RJ-45/SFP) ports
- IP clustering for single IP management
- Fan-less hardware design
- Q-in-Q support
- High performance network security and management capability
- Advanced QoS features for triple play
- Enhanced scalability and availability features

Related Product



GEL-2870
24 GE + 4 GE Combo SFP
L2 SNMP Switch



GTL-2690
20 GE + 4 GE Combo SFP +
2 x 10 GE XFP Module slot
L3 SNMP Stackable Switch

Technical Specification

Performance

Standards Compliance

IEEE 802.1D Spanning Tree Protocol and traffic priorities
 IEEE 802.1w Rapid Spanning Tree Protocol
 IEEE 802.1p Priority tags
 IEEE 802.1Q VLAN
 IEEE 802.1v Protocol-based VLANs
 IEEE 802.1x Port Authentication
 IEEE 802.3-2005
 Ethernet, Fast Ethernet, Gigabit Ethernet
 Full-Duplex flow control
 Link Aggregation Control Protocol
 IEEE 802.3ac VLAN tagging

Switch Capability

24 Fast Ethernet ports with non-blocking wire speed performance
 8K MAC address entries with auto-learning function
 Packet Buffer: 1Mbits
 Jumbo frame up to 10k

Network Interface

24x RJ-45 10/100BASE-TX ports
 4x Gigabit RJ-45/SFP (Mini-GBIC) shared ports

Software

Layer 2 Features

Auto-negotiation for port speed and duplex mode
 Flow Control:
 IEEE 802.3x for full-duplex mode
 Back-Pressure for half-duplex mode
 Spanning Tree Protocol:
 IEEE 802.1D Spanning Tree Protocol (STP)
 IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
 IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
 Loop Back Detection
 BPDU Guard
 BPDU Filter
 Root Guard
 Auto Edge
 VLANs:
 Supports 255 IEEE 802.1Q VLANs
 Port-based VLANs
 IEEE 802.1v Protocol-based VLANs
 Private VLAN
 GVRP
 Link Aggregation:
 Static Trunk
 IEEE 802.3ad Link Aggregation Control Protocol
 Trunk groups: 4, Trunk links: 2~8
 IGMP Snooping:
 IGMP v1/v2 snooping
 IGMP Queried
 IGMP Filtering
 MVR (Multicast VLAN Registration)
 DHCP Option 82
 DHCP Dynamic provision
 Supports jumbo frames up to 10KB

QoS

Priority Queues: 4 hardware queues per port
 Traffic classification based on IEEE 802.1p CoS, IP and DSCP
 Supports WRR and strict scheduling
 Bandwidth Control:
 Egress rate limiting: FE: 64Kbps ~ 100Mbps / GE: 64Kbps ~ 1000Mbps
 Ingress rate limiting: FE: 64Kbps ~ 100Mbps / GE: 64Kbps ~ 1000Mbps

Security

Supports IEEE 802.1X port based/MAC-based access control
 QoS Assignment
 RADIUS authentication
 IP Source Guard
 Dynamic ARP Inspection
 Link Detection
 MAC Filter
 TACACS+ 3.0
 Access Control List
 SSH (v1.5/v2.0)
 SSL

Management

Switch Management:
 CLI via console port or Telnet
 WEB management
 SNMP v1, v2c, v3
 Firmware & Configuration:
 Dual firmware images
 Firmware upgrade via TFTP server
 Multiple configuration files
 Configuration file: upload/download via TFTP server
 Auto Upgrade via TFTP server
 Supports RMON (groups 1, 2, 3 and 9)
 Supports BOOTP, DHCP for IP address assignment
 Supports SNMP
 Event/Error Log/Syslog
 Dynamic ARP Inspection
 sFlow
 MAC Based Mirror
 ATC
 Delay Reload

Hardware

LEDs

Power, CPU ACT, LINK/ACT, 10/100/1000Mbps, SFP

Dimension

430mm(W) * 171mm(D) * 44mm(H)

Weight

2kg

Power Supply

Internal power supply: 110~240VAC, 50/60Hz

Temperature

Operating: 0°C ~ 45°C

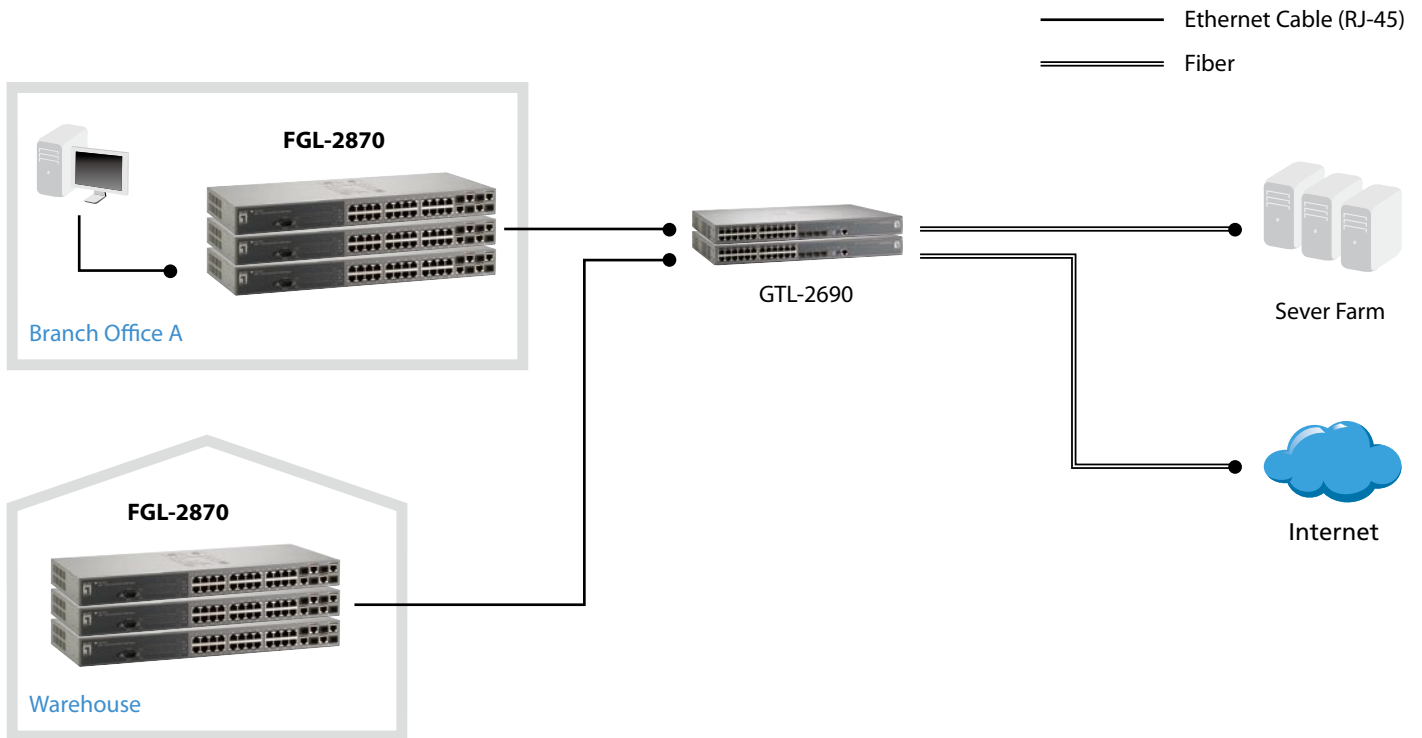
Humidity

Operating: 10% ~ 90% (Non-condensing)

EMI and Safety

CE Mark
 FCC Class A
 VCCI Class A
 CISPR Class A

Product Diagram



Order Information

FGL-2870: 24 FE + 4 GE Combo SFP L2 SNMP Switch

Package Contents

FGL-2870, Mounting Accessory (for 19" Rack Shelf), RS-232 cable, Power Cord, CD User Manual

Optional Accessories



GVT-0300
1.25Gbps SFP Transceiver,
Duplex LC connector (550m)



GVT-0301
1.25Gbps SFP Transceiver,
Duplex LC connector (10km)



GVT-0302
1.25Gbps SFP Transceiver,
Duplex LC connector (80km)



SFP-3001
1.25Gbps SFP Transceiver,
Duplex LC connector (550m)



SFP-3211
1.25Gbps SFP Transceiver,
Duplex LC connector (10km)



SFP-3611
1.25Gbps SFP Transceiver,
Duplex LC connector (80km)



SFP-3111
1.25Gbps SFP Transceiver,
Duplex LC connector, MLX
(2km)



SFP-3411
1.25Gbps SFP Transceiver, SM,
EZ, Duplex LC connector
(120km)



SFP-3711
1.25Gbps SFP Transceiver,
SM, EZ, Duplex LC
connector (120km)



SFP-9221
1.25G BIDI, (SM 10km
1310/1550), Simplex LC



SFP-9231
1.25G BIDI, (SM 10km
1550/1310), Simplex LC



SFP-9321
1.25G BIDI, (SM 20km
1310/1550), Simplex LC



SFP-9331
1.25G BIDI, (SM 20km
1550/1310), Simplex LC



SFP-9421
1.25G BIDI, (SM 40km
1310/1550), Simplex LC



SFP-9431
1.25G BIDI, (SM 40km
1550/1310), Simplex LC

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