

GTL-2872 Version: 1



28-Port L3 Lite Managed Gigabit Fiber Switch, 4 x 10GbE SFP+, 4 x Gigabit SFP/RJ45 Combo

The GTL-2872 switch is a Gigabit Ethernet access switch with four 10G uplink ports. The switch is ideal for Internet Service Providers (ISPs) and Multiple System Operators (MSOs) to provide home users with triple-play services with up to Gigabit bandwidth. It is also an ideal Gigabit access switch for SMB, enterprise, and campus networks. The GTL-2872 switch is packed with features that bring high availability, comprehensive security, robust multicast control, and advance QoS to the network edge, while maintaining simple management. The switch also supports the most advance IPv6 management, IPv6 security, and IPv6 multicast control in accordance with the growth of IPv6 deployment. ISPs can expand their services from home to business users by providing a more reliable and resilient network (ITU-T G.8032 ERPS), L2 VPNs, and advanced OAM (Operations, Administration, and Maintenance) functions to ensure service-level agreements.

Key Features

- IEEE 802.3ad LACP for auto port aggregation
- Dynamic ARP Inspection (DAI) protects switches against ARP spoofing
- Supports IPv4/IPv6 network operation
- MLD, Telnet, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management
- Support Operations, Administration, and Maintenance (OAM) mechanisms
- Supports DDMI SFP transceiver
- Redundant power inputs with Terminal Block and AC Jack

Specifications

System Specifications

Standards & Protocols:

IEEE 802.3x for full duplex mode
 Back-Pressure for half duplex mode
 IEEE 802.3ae changeable (10GBASE-SR/LR/ER),
 IEEE 802.3z (1000BASE-SX/LX/LHX/ZX) transceivers, and
 10G DAC/AOC
 IEEE 802.1D Spanning Tree Protocol (STP)
 IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
 IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
 IEEE 802.3ad Link Aggregation Control Protocol

**Memory:**

Flash 256MB

Buffer Memory:

DRAM 512MB

Connectors and Cabling:

20 x 1G SFP port

4 x 10/100/1000 (RJ45/SFP) Combo port

4 x SFP+ 10 Gigabit Uplink Port

1 x RJ45 Console port

Indicator:

PWR, DIAG, LINK

Power Input:

100-240VAC, 50-60Hz

DC Power Input (48-60VDC)

Power Consumption:

21.48W

Backplane (Gbps):

128Gbps

MAC Address Table:

16K

Features

General:

Tri-speed (10/100/1000BASE-T) copper interfaces

Auto-negotiation for port speed and duplex mode

Auto MDI/MDI-X

Digital Diagnostic Monitoring (DDM) on 10G SFP+ port only

VLANs:

Supports 4K VLAN

Port-based VLAN

IEEE 802.1Q VLAN

GVRP

VLAN Trunking

IEEE 802.1v Protocol-based VLAN

IP Subnet-based VLAN

MAC-based VLAN

Traffic Segmentation

L2 Virtual Private Network

Q-in-Q

VLAN Translation

L2 Protocol tunneling (xSTP, CDP, VTP & PVST+)

CDP/PVST+ Filtering

IGMP Snooping:

IGMP v1/v2/v3 snooping

IGMP Proxy reporting

IGMP Filtering

IGMP Throttling

IGMP Immediate Leave

IGMP Querier

OAM

IEEE 802.3ah Link

IEEE 802.1ag Connectivity Fault Management :

Connectivity check

Loopback

Linktrace

ITU-T Y.1731 Performance and Throughput Management:

Frame Delay

IPv4/IPv6 dual protocol stack

SNTP

NTP

Port Mirroring

Security:

DHCP Snooping

Port security

IEEE 802.1X Port-based and MAC-based Authentication, Dynamic VLAN Assignment, QoS Assignment, MAC Authentication, Web Authentication, Voice VLAN, Guest VLAN, L2/L3/L4 Access Control List, MAC-based and Port-based Access Control List,

Management:

CLI, WEB, TELNET, Syslog, SNMP v1, v2c, v3, sFlow

L3:

IPv4 static route

IPv6 static route

Performance

Packet Forwarding Rate:

95Mpps

Jumbo Frame (K):

10KB

Switching Capacity:

128Gbps

Environment

Power Saving:

IEEE 802.3az Energy-Efficient Ethernet (EEE)

Temperature (°C):

Operating : 0°C ~ 50°C

Humidity (Non-condensing):

Operating/Storage : 10% ~ 90%

Physical Specifications

Dimensions (W x D x H mm):

44 x 22 x 4.4cm

Weight (g):

3320g

Reliability

MTBF:

298,951hrs(25 degree C)

Approval and Compliance

EMI/EMS:

FCC

CE

CISPR22 Class A

BSMI

Safety:

UL (UL60950 cULus, UL60950-1), EN55022 Class A, C-Tick, EN55024



Order Information

GTL-2872

Package Contents

GTL-2872

Power Cord

Resource CD (User Manual, QIG)

Quick Installation Guide

19" Rack Mount Kit