



GTL-2881 Version: 1

KILBY 28-Port Stackable L3 Lite Managed Gigabit Switch, 2 x 10GbE SFP+, 1 x 10GbE Module Slot

The GTL-2881 series includes high-performance Gigabit Ethernet Layer3 Lite switches featuring 28 ports; 24 10/100/1000BASE-T ports, two 10G SFP+ ports, and one 10G expansion slot for a dual-port module. The switch is ideal for high-performance server aggregations, such as enterprise data centers, where it can connect high-end or network-attached file servers through fiber ports. It can also be deployed as a backbone upgrade, or to provide Gigabit-to-the-desktop for power users. This switch is packed with features and is a cost-effective solution that brings continuous availability, enhanced security, and advanced QoS to the network edge, while maintaining simplicity of management.

Key Features

- Dynamic ARP Inspection (DAI) protects switches against ARP spoofing
- Supports up to 8 switches in one stack
- Supports Operations, Administration, and Maintenance (OAM) mechanisms
- Ethernet Ring Protection Switching (ERPS) for Ethernet ring topologies with sub-50 ms failover capabilities
- IEEE 802.1d/w Spanning Tree Protocol (STP) and port mirroring
- IEEE 802.3ad LACP for auto port aggregation
- Supports port-based VLAN, IEEE 802.1Q VLAN Tagging
- QoS control for traffic prioritization and bandwidth management

Specifications

System Specifications

Standards & Protocols:

IEEE 802.1p priority tags

IEEE 802.1x port authentication

IEEE 802.3x Ethernet frame start and stop requests and timers used for flow control on full-duplex links

IEEE 802.3u CSMA/CD access method and physical layer specifications for 100 BASE-T-X Fast Ethernet

IEEE 802.3z CSMA/CD access method and physical layer specifications for 1000 BASE Gigabit Ethernet

IEEE 802.1q Virtual LAN

IEEE 802.1d Spanning Tree Protocol

IEEE 802.3ad Link Aggregation Control Protocol

IEEE 802.1s Rapid Spanning Tree Protocol

IEEE 802.1w Multiple Spanning Tree Protocol

Memory:

Flash Memory : 128 MB

DRAM : 256 MB

Buffer Memory:

1.5 MB

Port:

24 x 10/100/1000Mbps RJ45 port

2 x 10-Gigabit SFP+ ports (stacking capable)

1 x RJ45 console port

1 x module slot for an optional 2-port 10-gigabit SFP+ module (stacking capable)

Indicator:

LED indicators : Port, Uplink, System, Diagnostic

Transmission Method:

Store and Forward

Power Input:

100 to 240 V, 50-60 Hz, 1.5 A

Power Consumption:

35 W

Backplane (Gbps):

Switching Bandwidth : 128 Gbps

Forwarding Performance : 95.23 Mpps

MAC Address Table:

16K

Data Rate:

GE:Resolution 64 Kbps ~ 1000 Mbps

10G:Resolution 64 Kbps~ 10000 Mbps

Features

General:

OAM :

IEEE 802.3ah Link

IEEE 802.1ag Connectivity Fault Management (CFM)

ITU-T Y.1731 performance and throughput management

Stacking Features :

IP Clustering up to 36 devices, bandwidth up to 20G

Hardware Stacking up to 8 units, bandwidth up to 20G

IPv4/IPv6 dual protocol stack

G.8032 (ERPSv1/v2)

VLANs:

- Supports 4K IEEE 802.1Q VLANs

- Port-based VLANs

- GVRP/GARP

- IEEE 802.1v Protocol-based VLANs

- MAC-based VLANs

- IP subnet-based VLANs

- Private VLANs (Community)

- Traffic Segmentation (port isolated)

- Voice VLANs

- VLAN trunking

- VLAN translation

Security:

Port security

802.1x

Access Control List

DHCP snooping

IP Source Guard

Dynamic ARP Inspection

DoS Protection

AAA

SSH V1.3/V2

SSL/HTTPS

Management access filter

Management:

CLI/WEB Based

Telnet/SNMP v1/v2/v3

RMON I (1,2,3, 9 group)

Software Download

Auto upgrade

Dual Image

BOOTP/DHCP

SNTP

DNS

IP clustering

Even/Error/System log

Port monitor MAC/VLAN

LLDP (802.1ab)

L3:

Multi-netting (CIDR)

IPv4 Static Routes

RIP v1/v2

ARP/Proxy ARP

Performance

Packet Forwarding Rate:

95.24Mpps

Jumbo Frame (K):

10K

Switching Capacity:

128 Gbps

Environment

Heat Dissipation:

Fanless

Operating Temperature (°C):

Operating : 0°C to 45°C

Storage : -40°C to 70°C

Operating Humidity (Non-condensing):

Operating/Storage : 10% to 90%

Physical Specifications

Dimensions (W x D x H mm):

44X31.5X4.4 cm

Weight (g):

3.7 Kg

Reliability

MTBF:

904,213 hr (25°C)

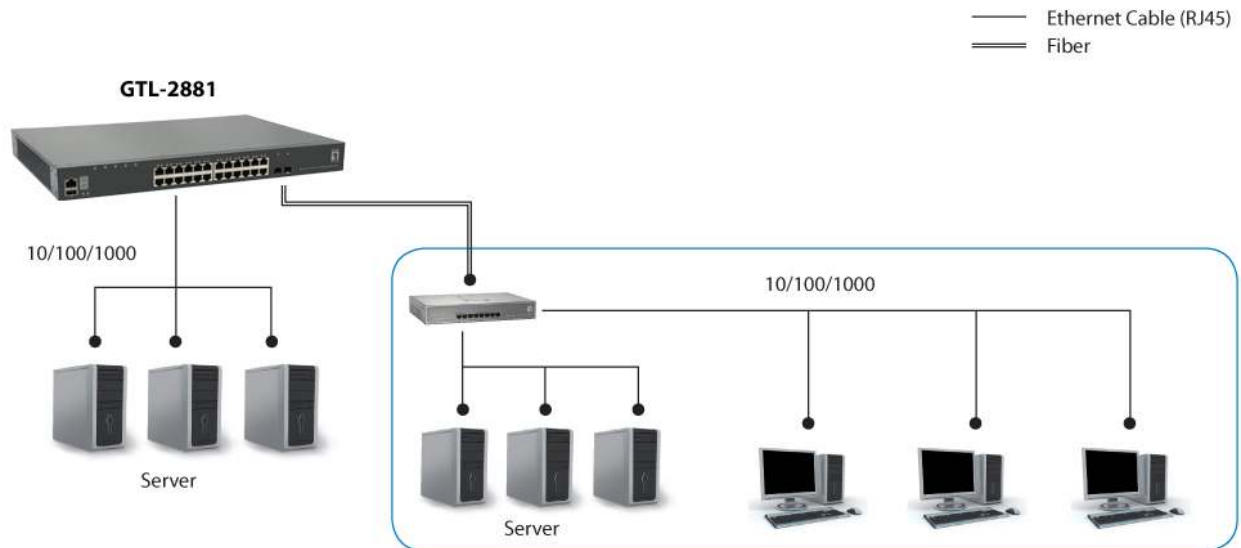
Approval and Compliance

EMI/EMS:
FCC Class A, CE, VCCI

Safety:
CB, UL

Environmental Test:
WEEE, RoHS

Diagram



Order Information

GTL-2881

Package Contents

GTL-2881
Quick Installation Guide
Resource CD (User Manual, QIG)
Power Cord
Console Cable
19" Rack Mount Kit
Rubber Feet

Optional Accessory



DAC-0101

10Gbps SFP Direct Attach Copper Cable, 1m, Twinax

**DAC-0103**

10Gbps SFP Direct Attach Copper Cable, 3m, Twinax

**DAC-0105**

10Gbps SFP Direct Attach Copper Cable, 5m, Twinax

**MDU-0211**

2-Port 10G SFP+ Module