



GTL-2881 Version: 1

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

The GTL-2881 series includes high-performance Gigabit Ethernet Layer3 Lite switches featuring 28 or 52 ports; 24 /48 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
- Stacking up to 8 switches in one stack
- Support 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

**Connectors and Cabling:**

24 x 10/100/1000 Base-T & 2 x 10G SFP+ & 1 Slots for 2 x 10G Stacking /Uplink

Fiber cable : 50/125µm, 62.5/125µm

**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

## 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)

**Security:**

?Port security

?802.1x

?Access Control List

?DHCP snooping

?IP Source Guard

?Dynamic ARP Inspection

?DoS Protection

?AAA

?SSH v1.5/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

### Backplane (Gbps):

Switching Bandwidth : 128 Gbps  
Forwarding Performance : 95.23 Mpps

### MAC Address Table:

16K

### Data Transfer Rate:

GE:Resolution 64 Kbps ~ 1000 Mbps  
10G:Resolution 64 Kbps~ 10000 Mbps

### Packet Forwarding Rate:

95.24Mpps

### Jumbo Frame (K):

10K

## Environment

### Heat Dissipation:

Fanless

### Temperature (°C):

Operating : 0oC to 45oC  
Storage : -40oC to 70oC

### 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 (25oC)

## Approval and Compliance

### EMI/EMS:

FCC Class A, CE, VCCI

### Safety:

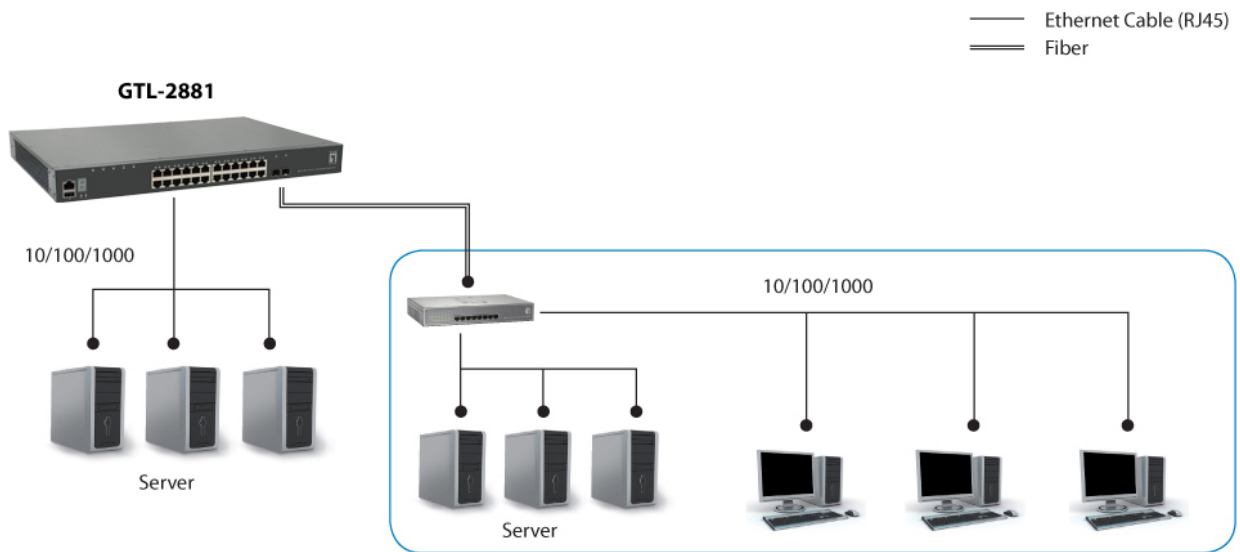
CB, UL

### 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" Rackmount Kit  
Rubber Feet

---

## Optional Accessory



**MDU-0211**  
2-Port 10G SFP+ Module

No liability or responsibility for any errors or omissions in the content.  
Specifications are subject to change without notice.  
All mentioned brand names are registered trademarks and property of their owners.  
Copyright © Digital Data Communications GmbH, Germany. All Rights Reserved.