



GTL-2891 Version: 1

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

The GTL-2891 are a family of high-performance Gigabit Ethernet Layer 3 switches featuring 28 ports; with 24 10/100/1000BASE-T ports, 2 10G SFP+ ports, and one 10G dual port expansion slot. The switches are ideal for high-performance server aggregations, such as enterprise data centers, where they can connect high-end or network-attached files servers over fiber ports. They can also be deployed as a backbone upgrade, or to provide Gigabit-to-the-desktop for power users. These switches are packed with features and are a cost-effective solution that bring 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 Quality of Service (QoS)
 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-TX 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 (LACP)
 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 10/100/1000Mbps RJ45 port

2 x 10G SFP port

1 x RJ45 Console port

1 Slots for 2 x 10G Stacking /Uplink

Indicator:

LED indicators : Port, Uplink, System, Diagnostic

Transmission Method:

Store and Forward

Power Input:

AC 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

Quality of Service(QoS):

Traffic Classification based on
IEEE 802.1p CoS, IP Precedence,
IP DSCP

Traffic Scheduling based on Strict
Priority, Weighted Round Robin,
Strict + WRR traffic scheduling

IGMP Snooping

MVR (Multicast VLAN Registration)

QinQ/Selective QinQ

G.8032 (ERPSv1/v2)

IPv4/IPv6 dual protocol stack

VLANs:

- Supports 4K IEEE 802.1Q VLANs
- Port-based
- GVRP/GARP
- VLAN Translation
- IEEE 802.1v Protocol-based VLANs
- MAC-based VLANs
- IP subnet-based VLAN
- Private VLAN (Community)
- Traffic Segmentation (port isolated)
- Guest VLAN
- Voice VLAN
- VLAN trunking

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
PPPoE Intermediate Agent

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)
sFlow
Delay reload

L3:

Multi-netting (CIDR)
IP v4/v6 Unicast Routing :
 ex. Static Route , ECMP , RIP v1/v2
 & RIPng , OSPF v2/v3 , BGPv4+
IP v4/v6 Multicast Routing :
 ex. PIM-DM/SM, PIM-DM6/SM6
VRRP
MLD v1/v2
ARP/Proxy ARP
IGMP/IGMP proxy v1/v2/v3

Ease of Use:

Yes

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

Power Saving:

Yes

Acoustic Noise:

No test report

Heat Dissipation:

Fanless

Temperature (°C):

Operating : 0°C to 45°C

Storage : -40°C to 70°C

Humidity (Non-condensing):

Operating/Storage : 10% to 90%

Physical Specifications

Dimensions (W x D x H mm):

44 x 31.5 x 4.4 cm

Weight (g):

3.7 Kg

Reliability

MTBF:

904,213 hr (25°C)

Approval and Compliance

EMI/EMS:

certification : FCC , CE , VCCI Class A

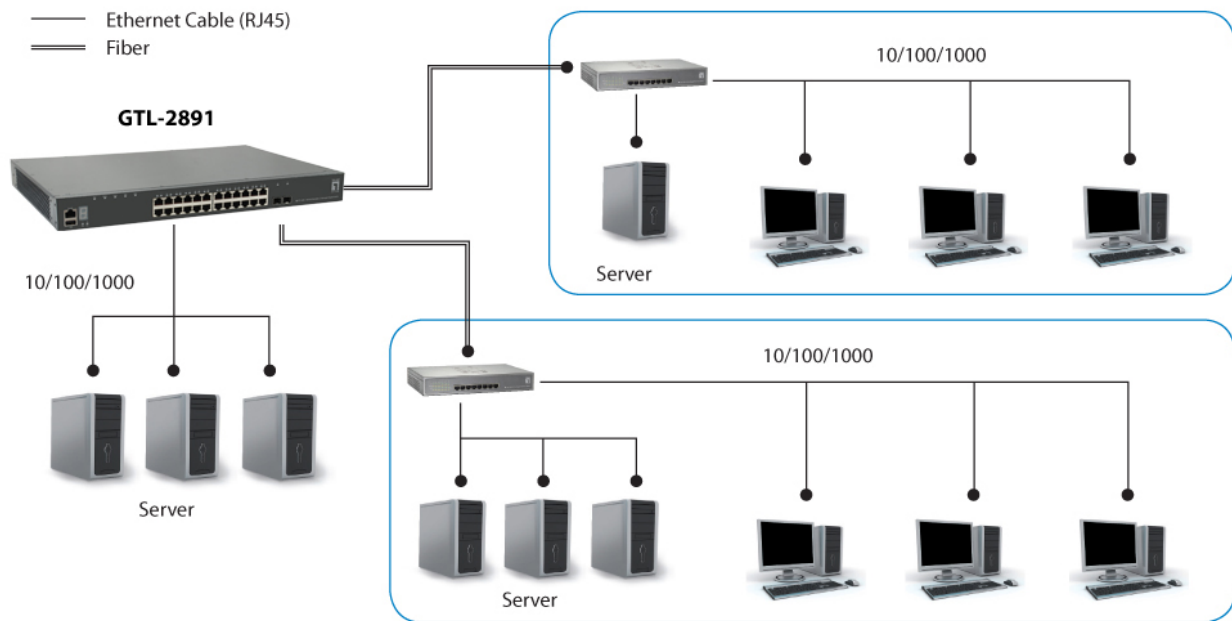
Safety:

Certification : CB , UL

Environmental Test:

Environmental Regulation compliance : WEEE , RoHS

Diagram



Order Information

GTL-2891

Package Contents

GTL-2891
Power Cord
19" Rack Mount Kit
Rubber Feet
Quick Installation Guide
Resource CD (User Manual, QIG)
Console Cable

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.