



## 28-Port L3 Managed Gigabit Ethernet Switch, 4 x SFP+ 10-Gigabit

GTL-2890 is a high performance, 10-Gigabit IPv6 Ethernet Layer 3 managed switch, with advanced hardware and rich software features providing compatibility for most applications at the network core. GTL-2890 offers twenty-four 10/100/1000Mbps ports and four fixed 10Gbps SFP ports. Designed for data center deployments,

GTL-2890 provides fast and seamless transfers at the core for access switches or DSLAM. With powerful traffic management and broadcasting control,

GTL-2890 is an ideal choice for the distribution or aggregation layer of large networks, providing long distance fiber connections. It is also an excellent choice as a core switch for enterprise customers, with advanced levels of security management. Complies with IPv6 form certification Phase II, as well as RoHS, CE and FCC standards.

### Key Features

- 24 Gigabit Ethernet ports and 4 10-Gigabit SFP+ slots
- Supports Access Control List (ACL) authentication of up to 768 entries and port-based security with IEEE802.1X
- Supports Command Line Interface (in RS-232 Console, Telnet, SSH)
- IEEE 802.3ad LACP for auto port aggregation of up to 128 groups, 8 ports per group
- Supports port-based VLAN, IEEE 802.1Q VLAN Tagging
- Supports VLAN (Port-based, Protocol-based, Private, Q-in-Q, Tag-based) and GVRP
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring

### Specifications

#### System Specifications

##### Standards & Protocols:

- IEEE 802.3 10-BASE-T, Ethernet
- IEEE 802.3u 100-BASE-TX, Fast Ethernet
- IEEE 802.3ab 1000BASE-T, Gigabit Ethernet
- IEEE 802.3ae 10 Gigabit Ethernet
- IEEE 802.1ab Station and Media Access Control Connectivity Discovery (LLDP)
- IEEE 802.1p Quality of Service (QoS)
- IEEE 802.1Q Virtual LANs (VLANs)
- IEEE 802.1D MAC Bridges
- IEEE 802.1d Standard Spanning Tree Protocol (STP)
- IEEE802.1V VLAN Classification by Protocol and Port
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.1X Port-based Network Access Control (PNAC)
- IEEE 802.3x Flow Control (full-duplex flow control)
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)

**Memory:**

256M

Flash 32M

**Buffer Memory:**

1.5MB

**Connectors and Cabling:**

24 x 10/100/1000Base-T RJ-45 Ports

4x 10G Gigabit SFP plus slots

**Button:**

Reset Button

**Indicator:**

Power, Link/Active

**Transmission Method:**

Store-and-Forward

## Features

**General:**

Quality of Service(QoS):

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

- Port Ingress/Egress Traffic Shaping

IEEE 802.1D/w Spanning Tree with Loopback detection, Auto edge port & BPDU filter/guard

Supports IGMP v1,v2,v3

VLAN:

-Max. 4K VLAN

-Port-based VLAN

-TAG-Based VLAN

-Private VLAN

-Protocol-based VLAN

-QinQ

-GVRP VLAN

IPv6.

Port Mirroring - user-defined mirroring port and mirrored port.

Support Static Link Aggregation,LACP,Max. 8 ports per LAG group.

**Security:**

Port/MAC Binding,BLACKHOLE MAC,MAC Address Filter

802.1x:

-Port-based Authentication

-MAC-based Authentication

-Billing based on schedule and traffic

-Guest VLAN

-Auto VLAN

Broadcast Storm Control.

ACL:

-Max. 1K ACL Rules

-ACL based on source/destination IP address, source/destination MAC address, TCP/UDP port, IP precedence and schedule.

BPDU Attack Defense,ICMP Attack Defense,DDoS Attack Defense.

supports ARP INSPECTION to avoid ARP SPOOFING attacks.

**Management:**

Web CLI(Telnet/SSH/Console);  
System Log;supports ARP inspection.  
Port Isolation;  
Port Mirroring;  
Supports SNMP v1,v2c,v3;

**L3:**

Static route table: 128  
Multicast table: 1024  
Host table: 16K  
Unicast routing:  
- Static unicast routes  
Multicast routing:  
- IGMP v1/v2/v3

**Performance****Backplane (Gbps):**

Switching Capacity: 128Gbps  
Forwarding Rate: 96 Mpps

**MAC Address Table:**

Unicast: 16K  
Multicast: 1024K

**Data Transfer Rate:**

10/100/1000Mbps

**Packet Forwarding Rate:**

1000Mbps port - 1,488,000pps  
100Mbps port - 148,000pps  
10Mbps port - 14,880pps

**Jumbo Frame (K):**

9K

**Environment****Temperature (°C):**

Operating: 0°C ~ 50°C  
Storage: -40°C ~ 70°C

**Humidity (Non-condensing):**

Storage: 5% ~ 95%  
Operating: 10%~ 90%

**Physical Specifications****Dimensions (W x D x H mm):**

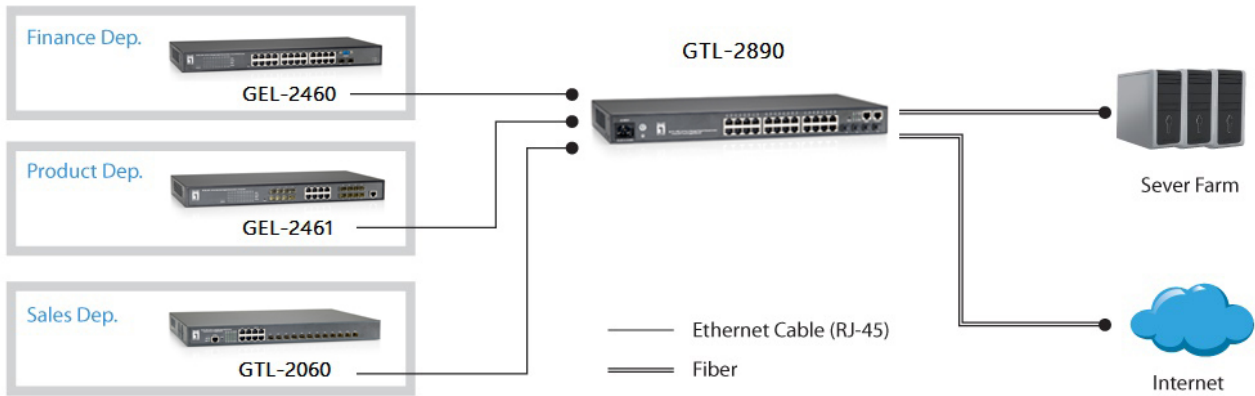
440 \*230 \*44mm

**Weight (g):**

3000g



## Diagram



## Order Information

GTL-2890

## Package Contents

GTL-2890  
Power Cord  
Quick Installation Guide  
Resource CD (User Manual, QIG)  
Bracket  
Console Cable

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