

GTL-2885 TURING 28-Port L3 Lite Managed Gigabit Switch, 24 x 1G RJ45, 4 x 1G/10G SFP+ Uplinks

Product Images





Short Description

- **Flexible Connectivity:** 24 x Gigabit RJ45 access ports and 4 x 1G/10G SFP+ uplinks for high-bandwidth aggregation.
- **Resilient Ring Network:** ERPS (G.8032) delivers sub-50 ms failover for mission-critical industrial and enterprise deployments.
- **Layer 3 Lite Routing:** Supports IPv4/IPv6 static routing and built-in DHCP server for efficient network segmentation.
- **Advanced VLAN Options:** Port-based, Protocol-based, Private VLAN, Q-in-Q, and 802.1Q tagging for flexible segmentation.
- **Secure Access Control:** RADIUS and TACACS+ authentication plus ACL and multi-level management security.
- **Intelligent Network Management:** Web UI, SNMP v1/v2c/v3, CLI, Telnet, SSH, and integrated DMS for centralized diagnostics.
- **Enterprise & Industrial Ready:** Designed for scalable, high-availability switching in business, campus, automation and surveillance networks.

Description

The LevelOne GTL-2885 TURING is a high-performance 28-port L3 Lite managed Gigabit switch engineered for enterprise, industrial, and campus networks requiring reliability, scalability, and intelligent traffic control. Equipped with 24 Gigabit RJ45 access ports and 4 dual-speed 1G/10G SFP+ uplinks, it provides flexible copper and fiber connectivity for aggregation, uplinks, and high-bandwidth applications.

With integrated Layer 3 Lite features—including IPv4/IPv6 static routing and a built-in DHCP server—the GTL-2885 improves routing efficiency, reduces load on core routers, and enables optimized network segmentation for departmental and multi-tenant environments.

To ensure high availability, the switch supports Ethernet Ring Protection Switching (ERPS, ITU-T G.8032), delivering rapid sub-50 ms recovery in ring topologies. This makes it ideal for mission-critical applications where downtime is unacceptable, such as surveillance backbones, building automation, and factory networks.

Advanced management and security tools include RADIUS and TACACS+ authentication, comprehensive VLAN options (port-based, protocol-based, Private VLAN, Q-in-Q, and

802.1Q tagging), plus centralized control through Web UI, CLI, Telnet, SSH and SNMP v1/v2c/v3. The integrated Device Management System (DMS) further enhances visibility by providing graphical topology mapping, diagnostics, and unified monitoring for connected devices.

The GTL-2885 TURING delivers a powerful combination of performance, resiliency, and intelligent management—making it a robust, scalable switching solution for modern enterprise and industrial infrastructure.

Additional Information

Features.	Ring Management • Supports ITU-T G.8031 Ethernet Linear Protection Switching • Supports ITU-T G.8032 Ethernet Ring Protection Switching L3 Features : • Static Route (IPv4/IPv6) • DHCPv4 Server • DHCPv6 Server Layer 2 Features : Spanning Tree Protocol (STP) • Standard Spanning Tree 802.1d: Spanning Tree Protocol is an OSI layer-2 protocol which ensures a loop free topology for any bridged LAN • Rapid Spanning Tree (RSTP) 802.1w: Rapid Spanning Tree Protocol, which provides for faster spanning tree convergence after a topology change • Multiple Spanning Tree (MSTP) 802.1s: Multiple Spanning Tree Protocol. The MSTP protocol provides for multiple spanning tree instances VLAN • 802.1Q tag-based VLAN: Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs). • Port-based VLAN: A port member of a VLAN can be isolated to other isolated ports on the same VLAN and Private VLAN. • Private VLAN Edge (PVE): Private VLANs are based on the source port mask, and there are no connections to VLANs. This means that VLAN IDs and Private VLAN IDs can be identical. • Voice VLAN: The Voice VLAN feature enables voice traffic forwarding on the Voice VLAN. • Guest VLAN: The IEEE 802.1X Guest VLAN feature allows a guest VLAN to be configured for each 802.1X port on the device to provide limited services to non-802.1X-compliant clients. • Q-in-Q (double tag) VLAN: Business customers of service providers often have specific requirements for VLAN IDs and the number of VLANs to be supported. • 802.1v Protocol VLAN: Classifying multiple protocols into a single VLAN often imposes VLAN boundaries that are inappropriate for some of the protocols, requiring the presence of a non-standard entity to relay between VLANs the frames bearing the protocols for which the VLAN boundaries are inappropriate. • MAC-based VLAN: The MAC-based VLAN feature allows incoming untagged packets to be assigned to a VLAN and thus classify traffic based on the source MAC address of the packet. • IP Subnet-Based VLAN: In an IP subnet-based VLAN, all the end workstations in an IP subnet are assigned to the same VLAN. In this VLAN, users can move their workstations without reconfiguring their network addresses. • Management VLAN: Management VLAN is used for managing the switch from a remote location by using protocols such as telnet, SSH, SNMP, syslog etc. LACP Trunking • Link Aggregation Control Protocol (LACP) IEEE 802.3ad: Controls whether LACP is enabled on this switch port. LACP will form an aggregation when 2 or more ports are connected to the same partner • Up to 14 groups • Up to 16 ports per group GARP VLAN Registration Protocol (GVRP) • GVRP stands for GARP (Generic Attribute Registration Protocol) VLAN Registration Protocol. It's a Layer 2 network protocol, for automatic configuration of switches in a VLAN network DHCP Relay • Relay of DHCP traffic to DHCP server in different VLAN • Works with DHCP Option 82 IGMP v1/v2/v3 Snooping • IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 1024 multicast groups IGMP Querier • IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router IGMP Proxy • IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router MLD v1/v2 Snooping • Delivers IPv6 multicast packets only to the required receivers Multicast VLAN Registration (MVR) • It uses a dedicated manually configured VLAN, called the multicast VLAN, to forward multicast traffic over Layer 2 network in conjunction with IGMP snooping
Management.	IEEE 1588v2 PTP • Support IEEE 1588 v2 PTP (Precision Time Protocol). DHCP • DHCP Server: Support DHCP server to assign IP to DHCP clients. • DHCP client: The Dynamic Host Configuration Protocol (DHCP) is a standardized network protocol used on Internet Protocol (IP) networks for dynamically distributing network configuration parameters, such as IP addresses for interfaces and services, Event/Error Log • Support SNMP Trap/Syslog/SMTP. SNMP • SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM). Remote Monitoring (RMON) • Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis. Firmware Upgrade • Web browser upgrade (HTTP/ HTTPS) and TFTP. • Upgrade through console port as well. Configuration Export/Import • Update of the firmware controlling the switch. Port Mirroring • Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported. IEEE 802.1ab (LLDP) • Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network. • Support LLDP-MED (ANSI/TIA-1057) extensions. UPnP • The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play. CDP Aware • The CDP operation is restricted to decoding incoming CDP frames (The switch doesn't transmit CDP frames). CDP frames are only decoded if LLDP on the port is enabled. s-Flow • The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats. Web GUI Interface • Built-in switch configuration utility for browser-based device configuration. CLI • For users to configure/manage switches in command line modes. Dual Image • Independent primary and secondary images for backup while upgrading. NTP • Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched. Switch Management • HTTP/HTTPS. • SSH. • DHCP Client/ DHCPv6 Client. • Telnet. • IPv6 Management. Diagnostics • Cable diagnostics. • Ping. • Syslog. Device Management System (DMS) 1. Graphical Monitoring • Topology view: Support intuitive way to configure and manage switches and devices with visual relations. • Floor view: It's easy to drag and drop PoE devices and help you to build smart workforces. • Map view: Enhance efficiency to drag and drop devices and monitor surroundings on google map. • Display visual chart of network traffic of all devices and monitor every port at any time from switches. 2. Find my Switch • Search your real switches quickly and manage directly. 3. Traffic Monitoring • Display visual chart of network traffic of all devices and monitor every port at any time from switches. 4. Trouble Shooting • Network diagnostic between master switch and devices. • Support protection mechanism, such as rate-limiting to protect your devices from brute-force downloading.
Security.	ACLs Supports up to 512 entries. Drop or rate limitation based on: • Source and destination MAC, VLAN ID or IP address, protocol, port. • Differentiated services code point (DSCP) / IP precedence. • TCP/ UDP source and destination ports. • 802.1p priority. • Ethernet type. • Internet Control Message Protocol (ICMP) packets. • TCP flag. Port Security • Locks MAC addresses to ports, and limits the number of learned MAC address. IP Source Guard • Prevents illegal IP address from accessing to specific port in the switch. Storm Control • Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port. IEEE 802.1X • IEEE802.1X: RADIUS authentication, authorization and accounting. MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions. • Supports IGMP-RADIUS based 802.1X. • Dynamic VLAN assignment. TACACS+ • Supports TACACS+ authentication. Switch as a client. Secure Shell (SSH) • SSH secures Telnet traffic in or out of the switch. SSH v1 and v2 are supported. Secure Sockets Layer (SSL) • SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch. HTTPS and SSL (Secured Web) • Hyper Text Transfer Protocol Secure (HTTPS) is the secure version of HTTP. BPDU Guard • The BPDU guard, an enhancement to STP, removes a node that reflects BPDUs back in the network. It enforces the STP domain borders and keeps the active topology predictable by not allowing any network devices behind a BPDU guard-enabled port to participate in STP. DHCP Snooping • A feature acts as a firewall between untrusted hosts and trusted DHCP servers. Loop Protection • To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations.
PoE Supported.	No
Concurrent ports.	Total 28.00
Fanless.	No
Manageable.	Yes
Series.	TURING series
Grade.	Commercial
Switching capacity.	128 Gbps
Color.	Grey
EAN.	57083117101
Model Number.	GTL-2885
Dimensions (W x D x H).	442 x 211 x 44 mm
Product weight (kg).	2.675 kg
Data Rate.	10Gbps
Packet forwarding rate.	95,238 Mpps
Jumbo frame (KB).	10 KB
MAC address table.	32 K
Mount.	19" rack mount, Desk mount
Power consumption.	• 29.6 W (100 V~, 0.57 A) • 29.7 W (110 V~, 0.52 A) • 30.0 W (220 V~, 0.31 A) • 29.5 W (240 V~, 0.30 A)
Power supply.	100-240 VAC, 50/60Hz
Power supply included.	Yes
Standards.	IEEE 802.3 10-BASE-T, Ethernet, IEEE 802.3u 100-BASE-TX, Fast Ethernet, IEEE 802.3ab 1000BASE-T, Gigabit Ethernet, IEEE 802.3az Energy-Efficient Ethernet, IEEE 802.3ae changeable (10GBASE-SR/LR/ER), IEEE 802.3ad Link Aggregation Control Protocol (LACP), IEEE802.3z 1000Base-SX/LX
Approval and Compliance.	• FCC Part 15 Subpart B, Class A • CE • LVD • UKCA • RoHS
Operating humidity.	0% RH ~ 95% RH
Operating temperature.	0°C ~ 50°C
Storage humidity.	5% RH ~ 95% RH
Storage temperature.	-20°C ~ 70°C
Package Contents.	• GTL-2885 • Power Cord • DB9 to RJ45 Console Cable • 19" Rack Mount Kit • Rubber Feet • Quick Installation Guide • Declaration of Conformity

