levelone®

GTL-2891, KILBY 28-Port Stackable L3 Managed Gigabit Switch, 2 x 10GbE SFP+, 1 x 10GbE Module Slot

Product Images

Short Description

- Supports up to 8 switches in one stack
- Dynamic ARP Inspection (DAI) protects switches against ARP spoofing
- 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
- Virtual stacking supports up to 36 switches in a single logical stack for unified management, monitoring and configuration

Description

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.

Additional Information

Console RJ45	1
Gigabit RJ45	24
10-Gigabit module slot	1
Color	Black
EAN	4015867199015
Model Number	GTL-2891
Features	L2 Features Auto-negotiation for port speed and duplex mode Flow Control: ■ IEEE 802.3x for full-duplex mode ■ Back-pressure for half-duplex mode Spanning Tree Protocol: ■ IEEE 802.1D Spanning Tree Protocol (STP) ■ IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) ■ IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) ■ BPDU Guard ■ BPDU filtering ■ Root Guard ■ Loopback detection ■ Spanning Tree Fast Forwarding ■ Auto Edge-Port ■ BPDU Forward Storm Control (broadcast/multicast/unknown unicast) 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 Link Aggregation: ■ Static trunk ■ IEEE 802.3ad Link Aggregation Control Protocol ■ Trunk groups: 16 ■ Trunk links: 2~8 ports for Gigabit Ethernet ports 2~4 ports for 10 Gigabit Ethernet ports ■ Load Balance: SA+DA, SA, DA, SIP+DIP, SIP, DIP IGMP Snooping: ■ IGMP v1/v2/v3 snooping ■ IGMP Filtering ■ IGMP Throttling ■ IGMP Immediate Leave ■ IGMP Querier v1/v2 ■ IGMP SNP Proxy (v1/v2/v3) ■ IGMP Authentication ■ Source Filtering Mode Data Forwarding Non-STP loopback Detection L2 Protocol Tunneling (CDP,PVST,STP,LLDP) MVR (Multicast VLAN Registration) Supports Q-in-Q Supports select Q-in-Q UDLD G.8032 v2 (ERPS) Supports jumbo frames up to 10KB Supports Digital Diagnostic Monitoring (DDM) Packet filtering of L2 control CDP/PVST Cable diagnostics HW Stacking QoS Features Priority Queues: 8 hardware queues per port Traffic classification ■ IEEE 802.1p CoS ■ DSCP Traffic Scheduling ■ Strict Priority ■ Weighted Round Robin ■ Strict + WRR traffic scheduling PHB (Per Hop Behavior – internal priority) Port-based default priority Diffserv Rate Limiting (ingress and egress, per port base) ■ GE: Resolution 64 Kbps ~ 1000 Mbps Security Features Port security IEEE 802.1X port-based and MAC-based authentication IEEE 802.1X EAPOL frames pass-through IEEE 802.1X supplicant support Dynamic VLAN assignment Dynamic QoS assignment MAC authentication, Web authentication Voice VLAN, Guest VLAN Access Control List ■ L2/L3/L4 • L2 ACL filter SA/DA/VLAN • L3 IP SA/DA, subnet based • L4 TCP/UDP port • IPv6 ■ Time-based (time range) DHCP Snooping DHCP Snooping Option 82 IP Source Guard Dynamic ARP Inspection Instruction lock (link detection) PPPoE Intermediate Agent RADIUS authentication and accounting TACACS + authentication, authorization, and accounting Management Security ■ HTTPS and SSL (secured Web) ■ Denial of Service (DoS) protection ■ SSH 1.5/V2.0 (secured telnet session) ■ Management interface access filtering (SNMP, Web, Telnet) OAM Features IEEE 802.3ah link IEEE 802.1ag Connectivity Fault Management (CFM) ITU-T Y.1731 performance and throughput management Management Switch Management: ■ CLI via console port or Telnet ■ Web management ■ SNMP v1, v2c, v3 Firmware and Configuration: ■ Firmware upgrade via TFTP server ■ Supports dual image ■ Supports auto configuration provision ■ Supports auto firmware upgrade ■ Multiple configuration files ■ Software download/upgrade via TFTP or HTTP server ■ Configuration file download/upgrade via TFTP or HTTP server RMON (groups 1, 2, 3 and 9) BOOTP, DHCP client for IP address assignment SNTP, NTP IP clustering Port mirroring: VLAN mirror sFlow Event/error log/syslog, remote log, SMTP MIB I/II LLDP (802.1ab) Auto traffic control DHCP: Relay, dynamic provision (via Option 66,67), DHCPINFO, SERVER MAC-based mirror ACL mirror Remote port mirror (RSPAN) DNS client, proxy Link Layer Discovery Protocol (LLDP) LLDP-MED (VoIP related) L3 Features IPv4 Static unicast routes Equal cost multipath routing (ECMP) RIP v1/v2 OSPF BGP4+ PIM-DM IGMP v1/v2 IGMP v1/v2 proxy IGMP v3 IGMP v3 proxy PIM-SM VRRP Proxy ARP UDP Helper L3 Features IPv6 PIM-DM6 PIM-SM6 IPv6 static route OSPFv3 MLD v1/v2 IPv6 Features IPv4/IPv6 dual protocol stack IPv6 address types (unicast/multicast only used internally) ICMPv6 & ICMPv6 Redirect IPv6 Path MTU Discovery IPv6 Neighbor Discovery ■ Duplicate address ■ Static cache entry ■ Address resolution ■ Unreachable neighbor detection Manual configuration SNMP over IPv6 HTTP over IPv6 SSH over IPv6 Ping over IPv6 Traceroute over IPv6 Telnet support IPv6 DNS resolver IPv6 Syslog IPv6 SNTP IPv6 sFlow IPv6 TFTP (CLI not support) Remote IPv6 Ping DHCPv6 Snooping MVRv6 IPv6 DiffServ IPv6 ACL support IPv6 Source Guard RA Guard IPv6 ND Snooping MLD Snooping v1/v2
Data rate	Gigabit and 10-Gigabit Ethernet
PoE Supported	No
Concurrent ports	Total 28.00
Fanless	No
Manageable	Yes
Series	KILBY series
Grade	Commercial
Approval and Compliance	CE Mark (EN55022 Class A) EN 61000-3-2/3 VCCI Class A FCC Part 15 Class A CB IEC 60950-1 & EN 60950-1 UL/CUL UL 60950-1 & CSA 60950-1 WEEE RoHS
Operating humidity	10% RH ~ 90% RH
Operating temperature	0°C ~ 45°C
Storage humidity	10% RH ~ 90% RH
Storage temperature	-40°C ~ 70°C
Package Contents	GTL-2891, Power Cord, Console Cable, 19" Rack Mount Kit, Rubber Feet, Quick Installation Guide, Resource CD (User Manual, QIG)
Switching capacity	128 Gbps
Dimensions (W x D x H)	440 x 315 x 44 mm
Product weight (kg)	3.7
Backplane (Gbps)	128Gbps
Flash memory size	128 MB
Packet forwarding rate	95.23 Mpps
Indicators	LED indicaters : Port, Uplink, System, Diagnoustic
Jumbo frame (KB)	10
MAC address table	16 K
Mount	19" rack mount
MTBF	904,213 hr (25℃)
Packet buffer	1.5 Mbits
Power consumption	35 W
Power input	100 to 240 V, 50-60 Hz, 1.5 A
Power supply	AC power
RAM size	256 MB
Standards	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