

# GTL-2872, KILBY 28-Port L3 Lite Managed Gigabit Fiber Switch, 4 x 10GbE SFP+, 4 x Gigabit SFP/RJ45 Combo

## Product Images

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## Short Description

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- Redundant power inputs with Terminal Block and AC Jack
- IEEE 802.3ad LACP for auto port aggregation
- Dynamic ARP Inspection (DAI) protects switches against ARP spoofing
- Supports IPv4/IPv6 network operation
- MLD, Telnet, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management
- Supports Operations, Administration, and Maintenance (OAM) mechanisms
- Supports DDM SFP transceiver
- Virtual stacking supports up to 16 switches in a single logical stack for unified management, monitoring and configuration

## Description

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The GTL-2872 switch is a Gigabit Ethernet access switch with four 10G uplink ports. The switch is ideal for Internet Service Providers (ISPs) and Multiple System Operators (MSOs) to provide home users with triple-play services with up to Gigabit bandwidth. It is also an ideal Gigabit access switch for SMB, enterprise, and campus networks. The GTL-2872 switch is packed with features that bring high availability, comprehensive security, robust multicast control, and advance QoS to the network edge, while maintaining simple management. The switch also supports the most advance IPv6 management, IPv6 security, and IPv6 multicast control in accordance with the growth of IPv6 deployment. ISPs can expand their services from home to business users by providing a more reliable and resilient network (ITU-T G.8032 ERPS), L2 VPNs, and advanced OAM (Operations, Administration, and Maintenance) functions to ensure service-level agreements.

## Additional Information

Approval and compliance	FCC,CE, CISPR Class A, BSMI, VCCI, UL (CSA 22.2. NO 60950-1 & UL60950-1),CB (IEC60950-1)
Max. operating humidity (%)	90
Max. operating temperature (°C)	50
Max. storage humidity (%)	90
Max. storage temperature (°C)	70
Min. operating humidity (%)	10
Min. storage humidity (%)	10
Min. storage temperature (°C)	-40
Backplane (Gbps)	128Gbps
Indicators	PWR, DIAG, LINK
Jumbo frame (KB)	9
MAC address table	16K
RAM size	512MB
Flash memory size	256 MB
Mount	19" rack mount
Power supply	1 x Terminal Block 1 x AC power1 x Terminal Block 1 x AC power
Chipset	BCM56150
Standards	IEEE 802.3 10-BASE-T, Ethernet IEEE 802.3u 100-BASE-TX, Fast Ethernet IEEE 802.3ab 1000BASE-T, Gigabit Ethernet IEEE 802.3ad Link Aggregation Control Protocol IEEE 802.3ae changeable (10GBASE-SR/LR/ER) IEEE 802.3z (1000BASE-SX/LX/LHX/ZX) transceivers, and 10G DAC/AOC IEEE 802.3x Flow Control IEEE 802.3x for full duplex mode , Back-Pressure for half duplex mode IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

Features

L2 Features Tri-speed (10/100/1000BASE-T) copper interfaces Auto-negotiation for port speed and duplex mode Auto MDI/MDI-X 100M/1G fiber interface SFP ports support: IEEE 802.3z (1000BASE-SX/LX/LHX/ZX) transceivers 1G/10G fiber interface SFP+ ports support: IEEE 802.3ae changeable (10GBASE-SR/LR/ZR/ER), IEEE 802.3z (1000BASE-SX/LX/LHX/ZX) transceivers 10G DAC/AOC Digital Diagnostic Monitoring (DDM) on 1G SFP and 10G SFP+ port Transceiver-threshold current/rx-power/temperature/tx-power/ voltage/high-low alarm and warning Flow Control: IEEE 802.3x for full duplex mode Back-Pressure for half duplex mode Jumbo frames: 12 KB Broadcast/Multicast/ Unknown Unicast Storm Control 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), 64 instances Spanning-tree restricted-tcn Spanning-tree tc-prop-stop Stops propagation of topology change information BPDU Guard BPDU filtering Root Guard BPDU transparent Loopback detection Non-Spanning Tree Loopback detection ITU-T G.8032 Ethernet Ring Protection Switching: Sub 50 msec convergence Non-revertive operation mode Multiplying topology Multiple instance VLANs: Supports 4K VLAN Port-based VLAN IEEE 802.1Q VLAN GVRP (256 VLAN) IEEE 802.1v Protocol-based VLAN IP Subnet-based VLAN MAC-based VLAN Traffic Segmentation L2 Virtual Private Networks (Q-in-Q): Selective QinQ VLAN Translation L2 Protocol tunneling (xSTP, CDP, VTP and PVST+, LLDP) CDP/PVST+ Filtering Link Aggregation: Static Trunk IEEE 802.3ad Link Aggregation Control Protocol Trunk groups: 16, up to 8 GE ports per group Load Balancing: SA+DA, SA, DA, SIP+DIP, SIP, DIP IGMP Snooping: IGMP v1/v2/v3 snooping IGMP Proxy reporting IGMP Filtering IGMP Throttling IGMP Immediate Leave IGMP Querier IGMP mrouter-forward mode IGMP router-alert-option-check IGMP router-port-expire-time IGMP tcn-flood IGMP tcn-query-solicit IGMP unregistered-data-flood MVR (Multicast VLAN Registration): Supports 5 multicast VLANs Port mirroring (many source ports to one destination port. One source port to one destination port only) Remote port mirror (RSPAN) Security User Security for Enterprise: IEEE 802.1X port based and MAC based authentication Dynamic VLAN Assignment, Auto QoS MAC authentication Web authentication Voice VLAN Guest VLAN User Security for ISP/MSO: L2/L3/L4 Access Control List MAC Access control list (Source/Destination MAC, Ether type, Priority ID/VLAN ID) IP standard access control list (Source IP) IP extended access control list (Source/Destination IP, Protocol, TCP/UDP port number) DHCP Snooping DHCP Option 82 DHCP Option 82 Relay IP Source Guard Network Security: IPv6 ACL Port security Sticky MAC PPPoE IA Dynamic ARP Inspection CPU guard CPU/Memory threshold and alarm Denial of Service protection echo-charge smurf tcp-flooding tcp-null-scan tcp-syn-fin-scan tcp-xmas-scan udp-flooding win-nuke Management Security: Login Security RADIUS authentication RADIUS accounting TACACS + authentication TACACS + accounting TACACS + authorization Management Interface Access Filtering (SNMP, Web, Telnet) SSH (v1.5/v2.0) for security Telnet Cipher: aes192-ctr aes256-ctr aes256-gcm@openssh.com chacha20-poly1305@openssh.com aes128-ctr aes128-gcm@openssh.com KEY ssh-rsa rsa-sha2-512 rsa-sha2-256" in below SSL for HTTPS SFTP IPv4/ IPv6 SNMPv3 OAM IEEE 802.3ah Link IEEE 802.1ag Connectivity Fault Management: Connectivity check Loopback Linktrace ITU-T Y.1731 Performance and Throughput Management: Frame Delay Frame Delay variation QoS Features Priority Queues: 8 hardware queues per port Traffic classification: IEEE 802.1p CoS IP Precedence DSCP MAC Access control list ( Source/Destination MAC, Ether type, Priority ID/ VLAN ID) IP Standard access control list (Source IP) IP extended access control list (Source/Destination IP, Protocol, TCP/UDP port number) Traffic Scheduling: Strict Priority Weighted Round Robin Strict + WRR Ingress policy map (police rate, remark CoS) Egress policy map (police rate, remark CoS/DSCP) Rate Limiting (Ingress and Egress, per port base): GE: Resolution 64Kbps ~ 1,000Mbps Auto Traffic Control IPv6 Features IPv4/IPv6 Dual Protocol stack IPv6 Address Types Stack: Unicast IPv6 Neighbor Discovery: Duplicate address Address resolution Unreachable neighbor detection Stateless auto-configuration Manual configuration Remote IPv6 ping IPv6 Telnet support HTTP over IPv6 SNMP over IPv6 IPv6 Syslog support IPv6 TFTP support IPv6 MLD filter: MLD max-groups (throttling) IPv6 ND snooping MLD Snooping v1/v2 IPv6 source guard DHCPv6 snooping MVR6 TACACS IPv6 Routing IP interface IPv4/v6: 256/128 (Shared) IPv4/IPv6 Static Route Host route IPv4/v6: 4K/2K Net route IPv4/v6: 512/128 DHCP Server RIP v1/v2 Management Switch Management: CLI via console port or Telnet Web management SNMP v1, v2c, v3 IP clustering (32 members) Firmware & Configuration: Firmware upgrade via TFTP/HTTP/FTP server Dual images Multiple configuration files Configuration file upload/download via TFTP/HTTP/FTP server Firmware auto upgrade RMON (groups 1, 2, 3 and 9) BOOTP, DHCP client for IP address assignment DHCP dynamic provision option 66,67 SNTP/NTP IPv4/ IPv6 DNS client Event/Error Log Syslog SMTP Support LLDP (802.1ab) IPv4/ IPv6 sFlow v4, v5 Cable diagnostics Traceroute Traceroute6 DHCP server (8 pools, 512 IP address) TWAMP probe and responder

Energy Saving	IEEE 802.3az (Energy Efficient Ethernet)
Product weight (kg)	2.82
Product breadth (mm)	440
Product depth (mm)	220
Product height (mm)	44

Color	Black
EAN	4015867203064
Model number	GTL-2872
Package contents	GTL-2872, Power Cord, 19" Rack Mount Kit, Quick Installation Guide, Resource CD (User Manual, QIG)
Console RJ45	1
Gigabit RJ45/SFP combo	4
Gigabit SFP	20
Switching capacity	128Gbps
Grade	Commercial
Data Rate	Gigabit and 10-Gigabit Ethernet
PoE Supported	No
Manageable	Yes
Fanless	No
Concurrent ports	Total28.00
Series	KILBY series
Power consumption	21.48W
MTBF	298,951hrs(25 degree C)
Power input	100-240VAC, 50-60Hz DC Power Input (48-60VDC)

