![LevelOne logo](level one)

GTP-5281 Version: 1

KILBY™ 52-Port L3 Lite Managed Gigabit PoE Switch, 48 PoE Outputs, 2 x 10GbE SFP+, 2 x 10GbE Module Slot, 780W

The LevelOne GTP-5281, a L3 Lite Managed PoE Switch with 48 ports of Gigaibit RJ45 PoE and 2 ports of 10 Gigabit SFP. This switch is offering full suite of L2 management features, better PoE functionality with 780W PoE power budget and usability, including advanced L3 features such as Static Route that delivers better cost performance and lower total cost of ownership in enterprise networks via fiber or copper connections.

Key Features

- Stacking up to 4 switches in one stack
- Total PoE power budget: 780W, up to 30W per port
- Dynamic ARP Inspection (DAI) protects switches against ARP spoofing
- IEEE 802.3af/at PoE compliant to simplify deployment and installation
- 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
- 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 priority tags
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 BASET-X 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
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

Port:

48 x 10/100/1000Mbps RJ45 PoE port
2 x 10-Gigabit SFP+ ports (stacking capable)
1 x RJ45 console port
1 Slots for 2 x 10G Stacking/Uplink

Indicator:

LED indicaters : Port, Uplink, System, Diagnoustic

Transmission Method:

Store and Forward

Power Input:

100 to 240 V, 50-60 Hz

Power Consumption:

65 W

Backplane (Gbps):

Switching Bandwidth : 176 Gbps
Forwarding Performance : 130.94 Mpps

MAC Address Table:

16K

Data Transfer Rate:

GE:Resolution 64 Kbps ~ 1000 Mbps
10G:Resolution 64 Kbps~ 10000 Mbps

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 4 units, bandwidth up to 20G
IPv4/IPv6 dual protocl stack
G.8032 (ERPSv1/v2)
VLANs:
-Supports 4K IEEE 802.1Q VLANs
- Port-based VLANs
- GVRP/GARP
- IEEE 802.1v Protocol-based VLANs
- MAC-based VLANs
- IP subnet-based VLANs
- Private VLANs (Community)
- Traffic Segmentation (port isolated)
- Voice VLANs
- VLAN trunking
- VLAN translation

PoE:

Power Budget: Max. 780W
Power Output: Up to 30W per port
Support on all Gigabit ports based on IEEE 802.3af
PoE+ based on IEEE 802.3at
Auto disable after exceeding power budget
Dynamic Power Allocation

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

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)

L3:
Multi-netting (CIDR)
IPv4 Static Routes
RIP v1/v2
ARP/Proxy ARP

Performance

Packet Forwarding Rate:
130.94Mpps

Jumbo Frame (K):
10K

Switching Capacity:
176 Gbps

Environment

Power Saving:
IEEE 802.3az CSMA/CD access method and physical layer specifications for 1000BASE Gigabit Ethernet

Heat Dissipation:
four cooling fans

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):
440X391X44

Weight (g):
6.5 Kg

Reliability

MTBF:
233125 (25°C)

Approval and Compliance

EMI/EMS:
FCC Class A, CE, VCCI

Safety:
CB, UL

Environmental Test:
WEEE, RoHS

Order Information

GTP-5281

Package Contents

GTP-5281
Power Cord
Resource CD (User Manual, QIG)
Console Cable
19" Rack Mount Kit
Rubber Feet

Optional Accessory

DAC-0101
10Gbps SFP Direct Attach Copper Cable, 1m, Twinax

DAC-0103
10Gbps SFP Direct Attach Copper Cable, 3m, Twinax

DAC-0105
10Gbps SFP Direct Attach Copper Cable, 5m, Twinax

MDU-0211

2-Port 10G SFP+ Module