

GTP-5281 Version: 1



KILBY 52-Port Stackable 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 Gigabit 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

- Supports 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
- 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
- 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 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

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 indicators : Port, Uplink, System, Diagnostic

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 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 protocol 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

Operating Temperature (°C):

Operating : 0°C to 45°C

Storage : -40°C to 70°C

Operating 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

No liability or responsibility for any errors or omissions in the content.
Specifications are subject to change without notice.
All mentioned brand names are registered trademarks and property of their owners.
Copyright © Digital Data Communications GmbH, Germany. All Rights Reserved.