level® one

24GE 802.3at + 2GE/SFP Combo L3 Lite Managed Gigabit PoE Switch

H/W Version: 1

LevelOne GEP-2681 L3 Lite Managed PoE+ Switch is a next-generation Ethernet Switch offering full suite of L2 features, better PoE functionality 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.

LevelOne GEP-2681 delivers 24 (10M/100M/1G) RJ45/PoE+ (Support 802.3at/af, and total up to 185W) ports, 2 Combo GbE RJ45/SFP ports and RJ45 Console port. LevelOne GEP-2681 provides high HW performance and environment flexibility for SMBs and Enterprises. LevelOne GEP-2681 is ideal to deliver management simplicity, intuitive user experience, and lower total cost of ownership. The embedded Device Managed System is designed to be extremely easy-to-use/manage/install IP Phone, IP Cam, or Wifi-AP for Enterprise Applications.

Key Features

- L3 Lite Managed features provide easier manageability, robust security and QoS.
- Built in Device Management System (DMS)
- DHCP Server
- IPv4/IPv6 L3 static route
- PoE Port configuration and scheduling
- 802.3at high power PoE plus standard
- PoE Auto Checking Feature
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet

Technical Specification

GENERAL SPECIFICATION	
Standard Compliance	• IEEE802.3 Ethernet • IEEE802.3u Fast Ethernet • IEEE802.3x Flow Control • IEEE802.1p QoS • IEEE802.1Q VLAN Tagging • IEEE802.3af PoE • IEEE802.3at PoE-Plus • IEEE802.1d Spanning Tree • IEEE802.1w Rapid Spanning Tree (RSTP) • IEEE802.1s Multiple Spanning Tree (MSTP) • IEEE 802.3ad LACP • IEEE802.1ab LLDP • IEEE802.1X RADIUS Authentication
Port Configuration	24GE (10/100/1000) IEEE802.3af/at + 2GE/SFP Combo (10/100/1000)
Switch Architecture	Store and Forward
Switch Fabric	52 Gbps; Forwarding Rate 38.68 Mpps
Jumbo Frame	10K
MAC Address Table	8K; Auto learning
PoE SPECIFICATION	
PoE Standard	IEEE802.3af, IEEE802.3at Max 30W per port
Power Budget	185W
Advanced PoE Features	PoE Port Configuration, PoE Scheduling, PoE Auto-Checking, Power Delay
L2 FEATURES	
Spanning Tree Protocol (STP)	● Standard Spanning Tree 802.1d ● Rapid Spanning Tree (RSTP) 802.1w ● Multiple Spanning Tree (MSTP) 802.1s
Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad
VLAN	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ● Port-based VLAN ● 802.1Q tag-based VLAN ● MAC-based VLAN ● Management VLAN ● Private VLAN Edge (PVE) ● Q-in-Q (double tag) VLAN ● Voice VLAN ● GARP VLAN Registration Protocol (GVRP)
DHCP Relay	● Relay of DHCP traffic to DHCP server in different VLAN. ● 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
L3 FEATURES	
L3 Routing	IPv4/v6 Static Route
MANAGEMENT	
DHCP Server	Support DHCP server to assign IP to DHCP clients
Zero Touch Upgrade	Upgrade single switch automatically when you get notification
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
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 extensions
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
SNMP	SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)
Firmware Upgrade	HTTP/HTTPs), TFTP, Console Port
Other Management	• HTTP/HTTPs; SSH • DHCP Client/ DHCPv6 Client • Cable Diagnostics • Ping • Syslog • Telnet Client • uPnP • sFlow • NTP • IPv6 Management / Dual Stack
ENVIRONMETAL	
Input Power	100-240 VAC (50~60Hz)
Operating Temperature	-0°C to 45°C
Storage Temperature	-20°C to 70°C
Relative Humidity	10% to 95% non-condensing
REGULATORY APPROVALS	
Standards	• Manufactured in ISO9001-certified factory • FCC • CE

Order Information

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