DATASHEET

Hilbert 18-Port Gigabit PoE Smart Lite Switch,802.3at/af PoE 8PoE Output 230W







General data

16 PoE Plus Gigabit Ethernet ports with PoE watchdog and 2 Gigabit SFP slots
PoE total power budget: 230W, up to 30W per port
IEEE 802.3af/at PoE compliant to simplify deployment and installation
Supports 8K MAC address auto-learning and auto-aging
9K jumbo frames to increase data transfer rates
IP multicast filtering through IGMP Snooping V1/V2
802.1Q Tag-based VLAN enables network segmentation to improve performance and security
IEEE 802.1p QoS with 4 priority queues
Supports storm control for unknown unicast/broadcast/multicast
Minimizing carbon footprint through advanced energy efficient technology (IEEE 802.3az)
4KV surge protection, 6KV contact/8KV air ESD protection
Web-based Smart Lite real-time management
Supports LevelOne IP Locator for easier IP management.

The LevelOne Hilbert GES-2118P Gigabit PoE Smart Lite Switch is a new generation Ethernet switch that offers powerful PoE functionality and ease of use, enabling Ethernet services cost-effectively over copper connections. The GES-2118P offers 16 (10M/100M/1G) RJ45 PoE+ (support 802.3at/af, and up to 230W total) ports and 2 Gigabit SFP slots. With the new LevelOne IP Locator, the simple switch discovery software, all Hilbert series switches can be searched and information about the switch and IP configuration can be displayed. It is compatible with the most

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common Windows and Mac operating systems.

The LevelOne GES-2118P offers high hardware performance and environmental flexibility for businesses. The GES-2118P is ideal for easy management, optimal usability and lower total cost of ownership.

General
Color: Black

Features
L2 switching features
● IGMP snooping
● Link Aggregation (Supports static link aggregation)
● Port mirroring
● Cable Test

VLAN
● Supports up to 32 VLANs (out of 4K VLAN IDs)
● MTU/Port/802.1Q VLAN

Quality of Service (QoS)
● Support Port-based/802.1p/DSCP priority
● Support 4 priority queues
● Rate Limit
● Storm control
Administration ● Web-based Graphic User Interface (GUI)
● Supports LevelOne IP Locator for easier IP management.
Miscellaneous
Grade Commercial
Data rate Gigabit Ethernet
PoE Supported Yes
Manageable Yes
Fanless No
Concurrent ports 18.00 ports
Series HILBERT series
PoE power budget 230.00 watts

Non-disclosure
Embedded system SoC
Others
Approvals and Compliance
● CE
● UKCA
● FCC Part 15, Subpart B Class B
● RoHS

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Operating humidity 10% RH ~ 90% RH
Operating temperature 0°C ~ 45°C
Storage humidity 5% RH ~ 95% RH
Storage temperature -40°C ~ 70°C
scope of delivery
● GES-2118P
● Power cord
● 19" Rack Mount Kit
● Quick Installation Guide
● Declaration of Conformity
performance
Switching capacity 36 Gbps

Physical Specifications
Product weight (kg) 2.4 kg
Dimensions (W x D x H) 440 x 190 x 44.5 mm

System specifications
Energy consumption 250W (full loading/PoE on)
MTBF 43,800 hrs
Packet forwarding rate 26,784 Mpps
Heat dissipation 81.89 (Btu/H)
Port Configuration 18
Standards
● IEEE 802.3 10-BASE-T (Ethernet)
● IEEE 802.3u 100-BASE-TX (Fast Ethernet)
● IEEE 802.3ab 1000BASE-T (Gigabit Ethernet)
● IEEE 802.3z 1000BASE-X (Gigabit Ethernet)
● IEEE 802.3x Flow Control (full-duplex flow control)
● IEEE 802.3af Power over Ethernet (PoE)
● IEEE 802.3at Power over Ethernet Plus (PoE+)
● IEEE 802.3az: Energy Efficient Ethernet
Power supply 100-240 VAC, 50-60 Hz
Acoustic noise (dB) 30 dB (A)
Pin assignment and polarity 1/2 (+), 3/6 (-)
Attachment 19" rack mount, desk mount
Flash memory size 2 MB
MAC address table 8K
Jumbo frames (KB) 9 K
Indicator Power, System, Link/Act, PoE
Packet buffer 4.1 Mbits

Technical properties	
10 Gigabit Ethernet	False

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Ethernet	True
Fast Ethernet	True
Gigabit Ethernet	True
Manageable	True
Manufacturer	LevelOne
Mounting method	482.6 mm (19 inch) mounting
Number of ports 10/100/1000 Mbps RJ45	16
Number of ports PoE	16
Power over Ethernet (PoE)	802.3 at (PoE+)

Available variants

ArtNr.	Bezeichnung	Max. PoE power
GES-2118P	Hilbert 18-Port Gigabit PoE Smart Lite Switch,802.3at/af PoE 8PoE Output 230W	230 W

Note on Intended Use

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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