DATASHEET

52-Port L3 Managed Gigabit Switch, 48x Gigabit RJ45, 4x 10GbE SFP+



General data

48 Gigabit Ethernet ports and 4 10Gigabit SFP+ slots
Supports L3 management such as OSPF, RIP, QoS, VLAN, MSTP, multi-broadcast and port management
6KV surge, 6KV contact and 8KV air ESD protection
Working temperature range from -10℃ to 50℃

The LevelOne GTL-5291 offers powerful Layer3 Gigabit Ethernet switching with 52 ports, of which 48 are RJ45 10/100/1000BASE-T ports and another 4 are 10G SFP+ ports. It supports Layer3 management, such as OSPF, RIP, QoS, VLAN, MSTP, Multi-Brocast and Port Management. The switch is ideal for high-performance server aggregations, such as: B. in corporate data centers, where it can connect high-end or network-connected file servers via fiber optic ports. It can also be used as a backbone upgrade or to provide gigabit-to-the-desktop for power users. Packed with features, this switch is a cost-effective solution that provides continuous availability, enhanced security and advanced QoS to the edge network while being easy to manage.

General
Color: Black

Features
Port configuration
- Auto negotiation
- Flow Control (Support Head-of-line blocking)
- Port Mirror
- Traffic statistics

Link aggregation
- Static link aggregation LACP
- Algorithm based on Source/Destination MAC
- Algorithm based on Source/Destination IP
- 8 groups
- 8 ports per group

MAC Table
- Aging time
- Static MAC address
- Dynamic MAC address management

VLAN
- 4K Active VLANs
- 4K VID

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● 802.1Q Tag VLAN
● Port VLAN
● Protocol VLAN
● MAC VLAN
● Management VLAN
● Voice VLAN
● Q-in-Q
● Private VLAN
● GARP/GVRP

ACL
● 64 ACLs
● L2, L3 and L4
● Time-based ACL

Spanning tree
● 802.1D Spanning Tree Protocol (STP)
● 802.1w Rapid Spanning Tree Protocol (RSTP)
● 802.1s Multiple Spanning Tree Protocol (MSTP)
● Loop Guard
● Root Guard
● TC-BPDU Guard
● BPDU Guard
● BPDU filters

Multicast
● 256 groups
● GMP v1/v2/v3
● Fast Leave
● Multicast VLAN
● Static Multicast
● Multicast filters
● IGMP Statistics
● MLD snooping

QOS
● 4 priority queues
● CoS port-based
● CoS 802.1p based
● CoS DSCP based
● Scheduling algorithms SP, WRR, SP+WRR
● Storm Control (Broadcast, Multicast, Unknown Unicast)
● Bandwidth control per port
● Head of line blocking

Management ● SNMP v1/v2c/v3
● RMON 4 groups
● WEB (HTTP/HTTPS)
● CLI (Telnet, Console, SSHv1/v2)

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● Firmware upgrade via console/web/TFTP
● Configuration backup/reload
● All possible configurations in the CLI must exist in the WEB interface
● LLDP
● System Log(Syslog) Information
Security ● Port Security
● MAC address filter
● ARP Association (Manual, ARP scanning, DHCP snooping) up to 200 entries
● ARP Protection
● DoS (Denial of Service)
● Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type
● 802.1x Authentication (port-based and MAC-based) TACACS/TACACS+ Authentication
● RADIUS Authentication
● DHCP filters
● Guest VLAN
● SSLv2/SSLv3/TLSv1
● SSHv1/SSHv2
● Restriction of WEB access based on: IP Address, And. MAC and Port
● Port isolation
● Local User Name Password Authentication (2 levels)
● Loopback detection

Miscellaneous
Grade Commercial
Data rate Gigabit and 10-Gigabit Ethernet
PoE Supported No
Manageable Yes
Fanless No
Concurrent ports 52.00 ports
Others
Approvals and Compliance
● CE
● RoHS
Operating humidity 10% RH ~ 90% RH
Operating temperature -10°C ~ 50°C
Storage humidity 10% RH ~ 90% RH
Storage temperature -40°C ~ 85°C
scope of delivery
● GTL-5291
● Power cord
● 19" Rack Mount Kit
● Quick Installation Guide
● Declaration of Conformity

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Physical Specifications
Product weight (kg) 6
Dimensions (W x D x H) 442 x 320 x 44 mm

System specifications
Energy consumption 40 W
Standards ● IEEE 10BASE-T (IEEE 802.3)
● IEEE 100BASE-TX (IEEE 802.3u)
● IEEE 1000BASE-T (IEEE 802.3ab)
● IEEE 802.3z (1000BASE-SX/LX/LHX/ZX) transceivers
● IEEE802.3x flow control
● IEEE 802.1Q VLANs
● IEEE 802.1D Spanning Tree Protocol (STP)
● IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
● IEEE 802.1s Multiple Rapid Spanning Tree Protocol (MSTP)
Power supply 100-240 VAC, 50-60 Hz
Attachment 19" rack mount, desk mount
MAC address table 32K
Jumbo frames (KB) 9
indicator
● Power
● Link/Active
Packet buffer 16 Mbits
Backplane (Gbit/s) 176

Technical properties	
10 Gigabit Ethernet	True
Ethernet	True
Fast Ethernet	True
Gigabit Ethernet	True
Manageable	True
Manufacturer	LevelOne
Mounting method	482.6 mm (19 inch) mounting
Number of ports 10 Gbps Mini GBIC	4
Number of ports 10/100/1000 Mbps RJ45	48

Available variants

ArtNr.	Bezeichnung	Unique
GTL-5291	52-Port L3 Managed Gigabit Switch, 48x Gigabit RJ45, 4x 10GbE SFP+	Unique

Note on Intended Use

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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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