

GTL-2091 20-Port-L3-Managed-Gigabit-Switch, 12 x 10GbE SFP+, 8 x Gigabit RJ45, Redundantes Netzteil

Product Images



Short Description

8 Gigabit-Ethernet-Ports und 12 10-Gigabit SFP+ Slots
Redundante Netzversorgung durch zwei getrennte AC-Eingänge
Umfangreiche Layer 3 Funktionen, wie Statische IPv4/v6 Routen, RIP v1/v2, OSPF v2/v3 und BGP
Virtuelles Stacking unterstützt bis zu 4 Switches in einem einzigen logischen Stack für vereinheitlichte Verwaltung, Überwachung und Konfiguration
Zugriffskontrolle per Zugriffskontrollliste (ACL) oder RADIUS
Unterstützt VLAN (Tag-basiertes, Q-in-Q)
IEEE 802.1d/w/s Spanning Tree Protocol (STP) und Portspiegelung
IP Multicast-Filterung durch IGMP Snooping V1 / V2 / V3
Unterstützt unbekanntes Unicast-/ Broadcast-/ Multicast-Storm-Control
Unterstützt IPv4/IPv6 Netzwerkbetrieb
DHCP-Client/Server
Bietet basierend auf IP DSCP eine Wos-Steuerung für Traffic- und Bandbreitenverwaltung
MLD, Telnet, SNMP V1, V2c & V3, RMON, Webbrowser und TFTP-Management

Description

Der LevelOne GTL-2091 aus unserer neuesten Generation L3 Managed Gigabit Switches, bietet acht Gigabit RJ45 Ports und zwölf 10G SFP+ Ports. Die eingebauten High-Density-SFP-Ports ermöglichen es verschiedene SFP-Transceiver einzubauen, die die notwendigen Glasfaserverbindungen für den Aufbau der Infrastruktur von Netzwerken bereitstellen. Er bietet darüber hinaus auch einen AC-Dual-Power-Failover, durch zwei Netzteilen, der den weiteren Betrieb unabhängig von einem einzelnen Ausfall der Stromquelle ermöglicht.

Der GTL-2091 mit seinen leistungsstarken Layer3-Funktionen (IPv4/v6 static route, RIP v1/v2, OSPF v2/v3, BGP, PIM-DM, PIM-SM). Der Switch unterstützt auch die fortschrittlichste IPv6-Verwaltung, IPv6-Sicherheit und IPv6-Multicast-Kontrolle im Einklang mit dem Wachstum der IPv6-Bereitstellung. ISPs können so ihre Dienste für Privatanwender erweitern, indem sie ein zuverlässigeres und widerstandsfähigeres Netzwerk und erweiterte OAM-Funktionen (Operations, Administration and Maintenance) bereitstellen, um Service-Level-Vereinbarungen zu gewährleisten. So unterstützt Sie dieser Switch den Betrieb zu skalieren, um dem Geschäftswachstum, den Einsparungen bei den Betriebskosten und der einfachen Verwaltung, die heute gefordert wird, gerecht zu werden.

Additional Information

Code des Harmonisierten Systems (HS)	851762
Zolltariflicher Warencode (TARIC)	8517620000
Features	L2 Features ● Spanning Tree Protocol ● 802.1D Spanning Tree Protocol (STP) ● 802.1w Rapid Spanning Tree Protocol (RSTP) ● 802.1s Multiple Spanning Tree Protocol (MSTP), 32 instances ● MAC Address Table ● Up to 32K entries ● Flow Control ● 802.3x Flow Control when using Full Duplex ● Back Pressure when using Half Duplex ● HOL Blocking Prevention ● Root Guard ● Loop Guard ● Jumbo Frame ● Up to 9KB ● 802.1AX Link Aggregation ● ERPS (Ethernet Ring Protection Switching) ● Port Mirroring ● Supports One-to-One, Many-to-One ● Supports Mirroring for Tx/Rx/Both ● Supports 4 mirroring groups ● Supports Mirroring for Rx ● VLAN Mirroring L2 Multicast Features ● MLD Snooping ● MLD v1/v2 Snooping ● Supports 256 groups ● Host-based MLD Snooping Fast Leave ● Supports 64 static MLD groups ● MLD Snooping Querier ● Per VLAN MLD Snooping ● MLD Proxy Reporting IGMP Snooping ● IGMP v1/v2/v3 Snooping ● Supports 256 IGMP groups ● Supports 64 static IGMP groups ● IGMP per VLAN ● IGMP Snooping Querier ● Host-based IGMP Snooping Fast Leave VLAN ● 802.1Q ● Double VLAN (Q-in-Q) ● Port-based Q-in-Q ● Selective Q-in-Q ● Port-based VLAN ● MAC-based VLAN ● Subnet-based VLAN ● Private VLAN ● VLAN Group ● Max. 4K static VLAN groups ● Max. 4094 VIDs ● Multicast VLAN ● Voice VLAN ● VLAN Trunking ● GVRP ● Up to 255 dynamic VLANs AAA ● 802.1X Authentication ● Dynamic VLAN Assignment ● RAIDS and TACACS+ Authentication ● Guest VLAN Access Control List (ACL) ● ACL based on: ● VLAN ● MAC address ● EtherType ● IP address ● Protocol type ● TCP/UDP port number ● IPv6 Traffic Class ● Time-based ACL Quality of Service (QoS) ● 802.1p Quality of Service ● 8 queues per port ● Queue Handling ● Strict ● Weighted Round Robin (WRR) ● Strict + WRR ● Deficit Round Robin (DRR) ● Bandwidth Control ● Port-based (Ingress/Egress, min. granularity 64 Kb/s) ● Flow-based (Ingress/Egress, min. granularity 64 Kb/s) ● Per queue bandwidth control (min. granularity 64 Kb/s) ● Support for following actions: ● Remark 802.1p priority tag ● Remark TOS/DSCP tag ● Bandwidth Control ● Committed Information Rate (CIR) ● QoS based on: ● 802.1p Priority Queues ● DSCP ● IP address ● MAC address ● VLAN ● IPv6 Traffic Class ● TCP/UDP port ● Switch Port ● Ether Type ● ToS/IP Preference ● Protocol Type IPv6 Features: ● Native IPv6 ● IPv4/IPv6 Dual Protocol stack ● IPv6 Address Types Stack: Unicast ● IPv6 Neighbor Discovery: ● Duplicate address ● Address resolution ● Unreachable neighbor detection ● Stateless auto-configuration Manual configuration Remote IPv6 ping ● IPv6 Telnet support ● HTTP over IPv6 ● SNMP over IPv6 ● IPv6 Syslog support ● IPv6 TFTP support ● MLD Snooping v1 ● IP source guard ● IPv6 source guard Operations, Administration, and Maintenance ● Cable Diagnostics ● 802.3ah Ethernet Link OAM ● Dying Gasp ● 802.1ag Connectivity Fault Management (CFM) ● Optical Transceiver Digital Diagnostic Monitoring (DDM) L3 Features ● ARP ● 512 Static ARP ● Supports Gratuitous ARP ● IP Interface ● Supports 256 interfaces ● Loopback Interface ● IPv6 Tunneling ● IGMP Proxy Reporting ● VRRP ● OSPF v2/v3 ● BGP ● PIM-DM (Protocol Independent Multicast - Dense Mode) ● PIM-SM (Protocol Independent Multicast - Sparse Mode) L3 Routing ● IPv4/v6 Static Routing ● Supports route redistribution ● Supports secondary route ● Default Routing ● Policy-based Route (PBR) ● Route Redistribution ● Supports 32K hardware L3 forwarding entries shared by IPv4/IPv6 ● Max. 32K IPv4 entries ● RIP v1/v2 ● RIPv2
Data rate	Gigabit and 10-Gigabit Ethernet
PoE Supported	Nein
Fanless	Nein
Manageable	Ja
Grade	Commercial
Zulassungen und Konformität	CE, FCC Part 15 Subpart B, RoHS
Operating humidity	10% RH ~ 90% RH
Operating temperature	0°C ~ 50°C
Storage humidity	5% RH ~ 95% RH
Storage temperature	-40°C ~ 70°C
Lieferumfang	● GTL-2091 ● Power Cord ● Console Cable ● 19" Rack Mount Kit ● Rubber Feet ● Quick Installation Guide ● Declaration of Conformity
Schaltleistung	256Gbps
Power Redundancy	Dual Power Supplies
Dimensions (W x D x H)	440 x 315 x 44 mm
Produktgewicht (kg)	3.6
Farbe	Grey
EAN	4015867239483
Modellnummer	GTL-2091
Backplane (Gbit/s)	256
Flash-Speichergröße	16 MB
Paket-Weiterleitungsrate	● 10000Mbps port - 136,904,740pps ● 1000Mbps port - 13,690,474pps ● 100Mbps port - 1,369,047pps ● 10Mbps port - 136,904pps
Wärmeableitung	170.65 BTU/hr (1000BTU/H =293W)
Indikator	● Power ● Sys ● Link/ACT
Jumbo-Frames (KB)	9 KB
MAC-Adresstabelle	32 K
Befestigung	19" rack mount
MTBF	185,680 hr(25 °C)
Paketpuffer	3 MB
Port Configuration	8x 10/100/1000 Ethernet ports, 12x 1/10GbE SFP+ Ports
Energieverbrauch	● 35W (Standby) ● 50W (full loading on)
Eingangsspannung	100-240V AC, 50/60 Hz, Maximum 7.8A@100V or 0.36A@220V
Stromversorgung	2 x Redundancy AC power
Power supply included	Ja
Arbeitsspeichergröße	512 MB
Standards	● IEEE 802.3 100BASE-FX ● IEEE 802.3z (1000BASE-SX/LX/TX)SFP Transceivers ● IEEE 802.3ae (10GBase-SR/LX)SFP+ Transceivers ● IEEE 802.3x for full-duplex mode ● IEEE 802.1D Spanning Tree Protocol (STP) ● IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) ● IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) ● IEEE 802.1Q VLAN ● IEEE 802.1ad QinQ and Selective QinQ ● IEEE 802.3ad Link Aggregation Control Protocol ● IEEE 802.1p CoS ● IEEE 802.1x port based and MAC based authentication ● IEEE 802.3az Energy-Efficient Ethernet (EEE) ● IEEE 802.3ah Ethernet Link OAM

