



GigaLION-24 TP

Industrial Networking:Industrial Ethernet:LION Control Room Switch:Chassis

Product description	
Description	Gigabit ETHERNET managed switch, store-and-forward forwarding scheme
Port type and quantity	24 x 10/100/1000BASE-T ports (RJ-45 connectors), 4 of which are Gigabit ETHERNET combo ports (RJ-45/SFP), Layer2
Type	GigaLION-24 TP
Order No.	943 860-001
More Interfaces	
V.24 interface	outband management connection via V.24 (DB9 RS-232 console interface)
Network size - length of cable	
Twisted pair (TP)	0 - 100 m
Network size - cascading	
Line - / star topology	any
Power requirements	
Operating voltage	min. 100 V, max. 240 V, input frequency: 47 to 63 Hz
Current consumption	max. 140 W
Service	
	SNMP v1 and SNMP v2 management functions RMON (groups 1,2,3 and 9) web-based management TELNET console interface BOOTP and DHCP for IP address assignment firmware upgraded by TFTP file transfer protocol through the Ethernet network dual firmware images configuration file upload/download by TFTP protocol two or more Configuration files system error log (syslog)
	IEEE 802.1Q tagging VLAN, port-based VLAN up to 255 active VLANs GVRP protocol for automatic VLAN registration and dynamic VLAN management private VLAN
Security	RADIUS (Authentication) TACACS+ SSL SSH (v1.5) Access Control IEEE 802.1x port based security
	L2/L3/L4Traffic Classification/Priority Management CoS by IEEE 802.1p 4 priority queues control Traffic Classification/Priority Management WRR for priority queues Strict scheduling for priority queue Rate Limiting Random Early Detection (RED)

Other services	auto-sensing, auto-negotiation on all 10/100/1000BASE-T ports up to 16 kByte memory for MAC address entries flow control mechanism: backpressure for half duplex; HOL (Head of Line) blocking prevention port mirroring load balance for both unicast and multicast traffics IGMP (v1/v2) snooping and query function broadcast storm control
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Redundancy

Redundancy functions	IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree link aggregation up to 8 ports in one trunk up to 4 trunk groups 802.3ad (LACP) Cisco Ether-channel(static truck)
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Ambient conditions

Operating temperature	0 °C to +40 °C
Storage/transport temperature	-40 °C to +70 °C
Relative humidity (non-condensing)	5% to 95%
MTBF	17.2 years

Mechanical construction

Dimensions (W x H x D)	440 mm x 324 mm x 43 mm
Mounting	19" cabinet or table unit
Protection class	IP 20

Scope of delivery and accessories

Scope of delivery	device, AC power cord, serial cable, mounting brackets, manual
Accessories to order separately	SFP transceivers: M-SFP-SX/LC (943 014-001), M-SFP-LX/LC (943 015-001), M-SFP-LH/LC (943 042-001) and M-SFP-LH+/LC (943 049-001)