



## PowerLION-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), with one optional 10GE uplink module, Layer 3

Type	PowerLION-24 TP
Order No.	943 886-001

### More Interfaces

V.24 interface	outband management connection via V.24 (DB9 RS-232 console interface)
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### Network size - length of cable

Twisted pair (TP)	0 - 100 m
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### Network size - cascadability

Line - / star topology	any
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### 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, integration in HiVision 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 GVRP protocol for automatic VLAN registration and dynamic VLAN management
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### Security

	RADIUS client TACACS+ client HTTPs/SSL Secure Shell (SSH, Secure Telnet) Access Control IEEE 802.1x port based security L2/L3/L4Traffic ClassIPv4 routing CoS by IEEE 802.1p 4 priority queues control WRR for priority queues Strict scheduling for priority queue Rate Limiting Random Early Detection (RED)
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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; full duplex mode port mirroring IGMP snooping broadcast storm control QoS: DiffServ, Traffic and Bandwidth Management, 8-level priority in switching stacking: stacks up to 10 units
Layer 3	IPv4 routing at wire speed Static IP routes RIP I and RIP II OSPF routing IP Multicast Routing: DVMRP, PIM-DM IP Redundancy - VRRP
<b>Redundancy</b>	
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) - Ether-channel(static truck)
<b>Ambient conditions</b>	
Operating temperature	0 °C to +40 °C
Storage/transport temperature	-40 °C to +70 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	19.8 years
<b>Mechanical construction</b>	
Dimensions (W x H x D)	440 mm x 44 mm x 410 mm
Mounting	19" cabinet or table unit
Protection class	IP 20
<b>Scope of delivery and accessories</b>	
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) 10GE uplink: PowerLION-XM-10G (943 886-201), XENPAK-10G-LR (943 886-901) Stack cable: PowerLION-XM-C30 (943 886-401), PowerLION-XM-C130 (943 886-501)