

GRS-MR24P

Stackable Industrial Rackmount L3 Lite Managed PoE Switch 24x1G RJ45, 4x10G SFP+



Description

GRS-MR24P is a high-performance industrial Ethernet switch that supports rich Layer 2/3 routing and advanced industrial ring network protocols. It features a rugged cast aluminum enclosure and standard 19-inch rack mounting, along with redundant high-voltage industrial power supplies for increased reliability.

GRS-MR24P is ideal for applications in energy, transportation, industrial manufacturing, environmental protection and military industries.

Specification

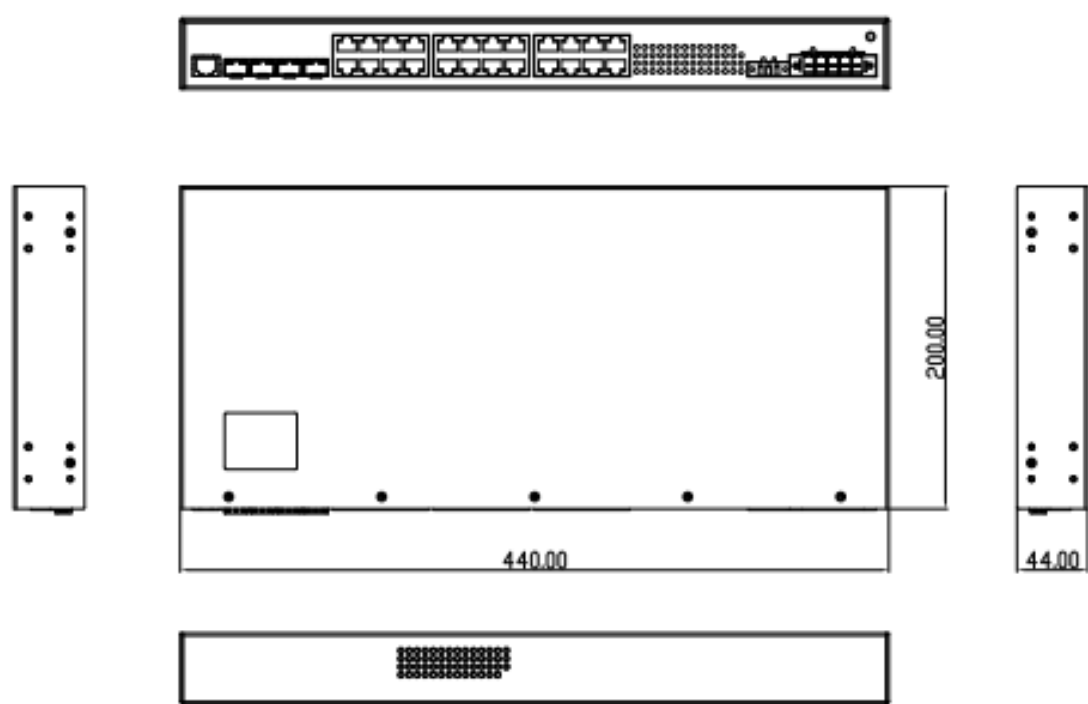
Model No.	GRS-MR24P
Interface	24GE RJ45, 4x10GE/GE SFP+ ports
Power Input	Dual DC48-57V
Operating Temperature	-40~75°C
Relative Humidity	5~95% (non-condensing)
Switching Capacity	128Gbps
Forwarding Rate	96Mpps
Standards	IEEE 802.1 Working Group IEEE 802.3 Working Group IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3z Gigabit 1000BASE-SX/LX IEEE 802.3ab Gigabit 1000BASE-T IEEE 802.3ae 10Gb/s Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3x flow control and back pressure IEEE 802.3ad port trunk with LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service

	IEEE 802.1Q VLAN tagging IEEE 802.1ad Q-in-Q IEEE 802.1X port authentication network control IEEE 802.1ab LLDP and LLDP-MED IEEE 802.3ah OAM IEEE 802.3az EEE (Energy Efficient Ethernet) RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 RFC 2328 OSPF v2 RFC 1058 RIP v1 RFC 2453 RIP v2 ITU-T G.8032 ERPS
MAC Switching	Static configuration and dynamic MAC learning(16K) MAC browsing and removal Configurable aging time of the MAC address Limited number of learnable MAC addresses MAC filtration Black-hole MAC list
Jumbo Frame	9K
VLAN	4K VLAN IDs, 4094 active VLAN, 64 SVI GVRP 1:1 and N:1 VLAN Mapping QinQ and selective QinQ Private VLAN Voice-VLAN Port-based VLAN MAC-based VLAN Protocol-based VLAN
STP	802.1d STP, 802.1w RSTP, 802.1s MSTP BPDU protection, root protection and ring protection L2PT for BPDU
Multicast	IGMP v1/v2/v3(1024 groups) IGMP Snooping IGMP Fast Leave Multicast group policy and multicast number limit Multicast filtering MVR

	Support for transparent passing of multicast traffic without IGMP snooping in certain port and VLAN
IPv4	Static routing, RIP, OSPF, VRRP
IPv6	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet, IPv6 QoS IPv6 Neighbor Discovery Path MTU Discovery MLD Snooping RIPng, OSPFv3
DHCP	DHCP server, client, relay, snooping
QoS	Traffic classification of port/L2~4 protocol headers/VLAN/CoS/DSCP CAR traffic control 802.1P/DSCP priority mapping and remark Multiple queuing algorithms such as SP, WRR or SP+WRR Tail-Drop, WRED Traffic supervision and traffic shaping 8 queues per port Rate-limit based on MAC/IP/COS/DSCP/TOS/EXP/any
Security	L2~L4 ingress/egress ACL (895 IPv4 FP, 384 IPv6 FP) Anti-DOS/IP spoofing/TCP/ping/SYN/ICMP flood attacks CPU protection Broadcast/multicast/unknown-unicast storm-control Port isolation Port Security, MAC address limitation, IP + MAC + port binding DHCP Snooping, DHCP Option 82 DAI (Dynamic ARP Inspection) IPSG (IP Source Guard) PPPoE-IA (including hostname/port/vlan/switch-MAC/client-MAC/user-defined circuit-ID and client-MAC/switch-MAC/user-defined remote-ID) IEEE 802.1x authentication MAC-based authentication AAA Radius, TACACS+ Multiple user privileges
Reliability	Static and LACP link aggregation, 64 groups, ups to 8 ports in one group Load-balance based src-MAC/src-IP/dst-MAC/dst-IP/src-port/dst-port and any combination EAPS, ERPS (recovery time≤50ms) ERPS revertive and non-revertive operation mode ISSU Loopback-detection
Management	CLI: Console, Telnet, SSHv1/2 Web-GUI: HTTP, HTTPS/SSL SNMP v1/v2c/v3, RMON, SNMP alarm/inform/traps MIB-I, MIB-II Upload and download of FTP/TFTP files

	Debugging Syslog for alarm/notification/command/debug NTP-4 SPAN, RSPAN (1:1 and N:1 port mirror) LLDP, LLDP-MED ZTP (Zero Touch Provisioning) Optical DDM Ethernet cable diagnosis
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Sizes



Ordering info

Number	Description
GRS-MR24P (Stackable)	Rackmount Industrial L3 Lite Managed PoE Switch 24-port Gigabit PoE + 4-port 10G SFP+ Dual DC48-57V, 19-inch rack-mount installation