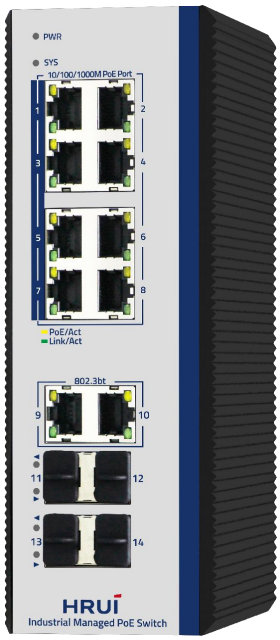
14-Port Gigabit Industrial Managed PoE Switch



Product Highlights

- Support：IEEE802.3、IEEE802.3u,IEEE802.3x,IEEE802.3z / ab,IEEE802.1Q, IEEE802.1p,IEEE802.1d/w
- PoE Power Management, PoE Watch dog based on data stream detection.
- IEEE802.3af(15.4w) and IEEE802.3at(30W),IEEE802.3bt（90W）
- Support STP(802.1D), RSTP(802.1w),MSTP(802.1s),ERPS.
- Support SNMP v1/v2/v3.
- Support IGMP Snooping , Static multicast filtering and MLD Snooping.
- Support 802.1x port and AAA Certification,Enhance network security.
- Support WEB, Telnet,CLI,SSH management.
- IP40 protection, rugged high-strength metal case,DIN35 Rail mounting
- EMC grade 4 design,-40 to 75℃ working temperature.
- Support Redundant power supply access, Support anti-reverse connection.
- Support EMC EN55032 standard.

Copyright © 2024 Shenzhen HongRui Optical Technology Co.,Ltd

Hardware Features

Description	Specification
Model	HR600-AXGM-SWG20104AS
Interface	10 *1G PoE ports 4 *1G SFP ports(13-14 Port support 2.5G,Compatible with 1.25G/155M) 1 * Console port
Port Standard	IEEE802.3 (Ethernet) IEEE802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3z (Gigabit Ethernet Fiber Standard) IEEE802.3x (Flow Control) IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol
Bandwidth	34Gbps
Packet Forwarding Rate	25.29Mpps
Packet Buffer	4Mbit
MAC Address Table	8K
Jumbo Frame	9.6Kbytes
VLAN	VLAN range 1-4094, maximum active VLAN is 4K
Transmission Method	Store and Forward
PoE Standard	IEEE802.3af (15.4W) IEEE802.3at (30W) IEEE802.3bt（90W）
PoE Port Output Voltage	DC 48-55V
PoE Ports	Port 1-8 PoE power output <30W Port 9-10 PoE power output <90W
PoE Power Budget	According to the adapter
Power Supply	DC12～55V DC48～55V（PoE） Power wiring: 4 PIN industrial terminals (redundant V1+V1-, V2+V2-）

Copyright © 2024 Shenzhen HongRui Optical Technology Co.,Ltd

Hardware Features

Description	Specification
Mainboard Power Consumption	14W
Structure Information	Product Dimensions :187*128*62.8mm Packaging Dimensions : 242*207*86mm Product Net Weight: 1KG Product Gross Weight: 1.3KG (excluding power supply)
Packing Information	Carton Dimensions : 445*445*510mm Packing Quantity: 20PCS Packing Weight: 27KG
Package Contents	Switch 1pcs, serial cable 1pcs,manual 1pcs,certificate of qualification 1pcs
Fan Quantity	0
Certification	CE、FCC、RoHS
Installation	Desktop,wall mounting installation, rail installation
Surge Protection	Port Surge: Common mode 6KV, differential mode 4KV; Electrostatic ESD: Air 15KV, Contact 8KV
Operating Temperature	-40 ~ 75°C
Storage Temperature	-40～85℃
Operation Humidity	10%~90%,non condensing
Storage Humidity	5%~95%,non condensing
SYS Green LED	On: The system is running normally Off:The system is not running
1-10 Green LED	Slow Flashing: 10M/100M/1G Link normal Off: Link blocked Fast Flashing: Data transmitting
1-10 Yellow LED	On: PoE powered on Off: PoE powered off
G11-G14 Green LED	On: Fiber optic connection is normal Off: Fiber optic not working Flashing: Link data transmission
PWR Green LED	On: powered on Off: powered off
Reset	Long press for 6 seconds to restore factory settings

Copyright © 2024 Shenzhen HongRui Optical Technology Co.,Ltd

Software Features

Description	Specification
L2 Function	
IPv4	IPv4 VLAN Interface IPv4 Static Routes ARP
Port	Port Switch configuration Port Description configuration Port Speed configuration Port Duplex configuration Port Flow Control configuration Max. 2500Mbps at SFP interface Jumbo Frame EEE Fiber Module(DDM)
Link Aggregation	Supports load balance policy; Base on MAC and IP-MAC Static and Dynamic Group Supports LACP
Storm Control	Boardcast suppression Unknown Multicast Unknown Unicast
Port Mirroring	One to one monitor Many to one monitor Ingress/Egress/Both
Port Security	MAC Address Constraints Action：Trap/Shutdown
Port Isolation	Support
Port Rate-limit	Support
Loopback Detection	Support
VLAN	Access/Trunk/Hybrid VLAN Tunnel (Q-in-Q Tunnel) GVRP VLAN range 1-4094, maximum active VLAN is 4K

Copyright © 2024 Shenzhen HongRui Optical Technology Co.,Ltd

Software Features

Description	Specification
MAC Address	Dynamic MAC address Static MAC address
Spanning Tree Protocol	STP/RSTP/MSTP BPDU Filter BPDU Guard Edge Port
ERPS	Major and sub ring up to 16 rings
Smart Ring	Private Ring Major and sub ring Up to 16 rings
PTP	Ordinary Clock Boundary Clock Transparent clock
LLDP	Support
Multicast	IGMP Snooping IGMP V1/V2/V3 Router Port Static IGMP group address IGMP groups filtering Querier MLD Snooping
QoS	Traffic classification based, Strict priority and WRR Port Priority 802.1P Priority IP DSCP Priority Supports up to 8 queues per port Port Shaping

Copyright © 2024 Shenzhen HongRui Optical Technology Co.,Ltd

Software Features

Description	Specification
PoE	
PoE Configuration	PoE Temperature PoE Type/Level/Power/Voltage/Current query PoE Switch Configuration PoE Watchdog Total PoE power budget control PoE power management PoE port priority IEEE 802.3bt，compatible with IEEE 802.3af/802.3at PoE Per PoE port power limit
PoE Schedule	Support
PoE Port Timer Reboot	Support
Services	
DHCP	DHCP Server IP Pool Static Binding DHCP Relay
Access Protocol	HTTP Telnet SSH Manager ACL
Security	
AAA	RADIUS TACACS+ 802.1X Base on port/MAC/local/WEB
DHCP Snooping	Support

Copyright © 2024 Shenzhen HongRui Optical Technology Co.,Ltd

Software Features

Description	Specification
IP Source Guard	Support
Dynamic ARP Inspection	Support
ACL	MAC ACL Port ACL IPv4 ACL IPv6 ACL
Diagnostics	
Syslog	Logging Message Remote Server
Ping	Support
Traceroute	Support
Cable Diagnositics	Support
Equipment Management	
Manager Access	Console HTTP Telnet SSHv2 SNMP
Manager IP	Static Address DHCP Client Supports IPv4 and IPv6 address DNS
Time Synchronization	SNTP Manual Time
SNMP	V1/V2C/V3 Community V3 User Group Trap Host

Copyright © 2024 Shenzhen HongRui Optical Technology Co.,Ltd

Software Features

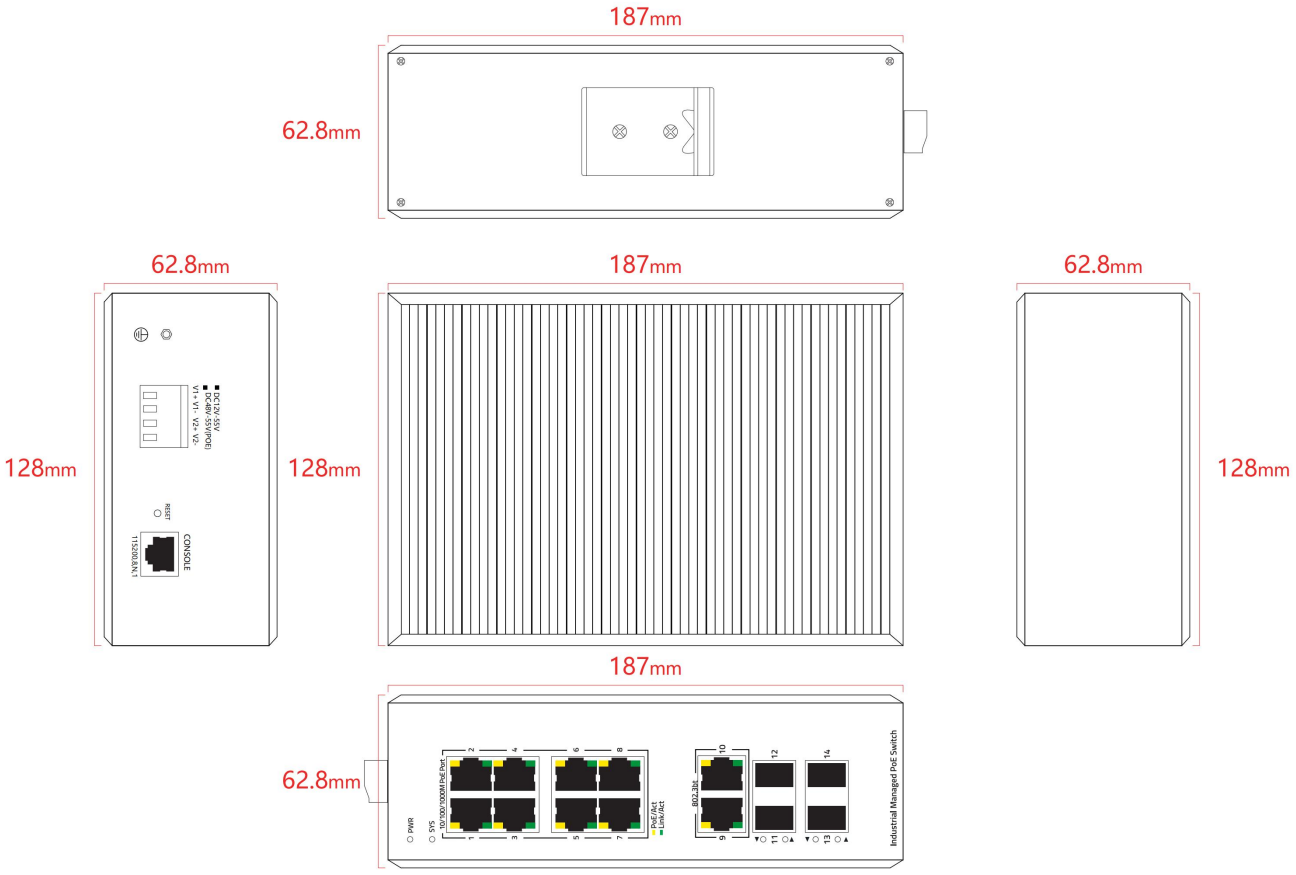
Description	Specification
SNMP MIB	RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2863 Interface MIB Private MIB
RMON	Statistics History Configuration Event Configuration Alarm Configuration
User Management	Congurable user privilege level from 0 - 15;
Firmware Management	Firmware upgrade Double Image; Swap between Active and Alternate firmware image.
Configuration Management	Upload and download
Save	Support
Restart	Support
Factory Defaults	Support
Standard Compliance	
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 802.1x Port Authentication Network Control	
IEEE 802.1ab LLDP	
IEEE 802.3af Power over Ethernet	
IEEE 802.3at Power over Ethernet Plus	
IEEE 802.3bt PoE++ Power over Ethernet Plus Plus	
RFC 768 UDP	
RFC 793 TFTP	
RFC 791 IP	

Copyright © 2024 Shenzhen HongRui Optical Technology Co.,Ltd

Software Features

Description	Specification
RFC 792 ICMP	
RFC 2068 HTTP	
RFC 1112 IGMP v1	
RFC 2236 IGMP v2	
RFC 3376 IGMP v3	
RFC 2710 MLD v1	
FRC 3810 MLD v2	
ITU-T G.8032 ERPS Ring	

Product Structure Diagram



Copyright © 2024 Shenzhen HongRui Optical Technology Co.,Ltd