

36 Ports Gigabit L3 Managed Industrial Switch

WD-GS-2210-24S4Fi

Product brochure

Apollo Infoways Pvt. Ltd. Toll Free: 18003099415



Product Introduction

WD-GS-2210-24S4Fi is a 36-port gigabit L3 managed industrial Ethernet switch with 24 gigabit RJ45 ports, 8 gigabit SFP ports(Combo), and 4 10G optical ports, especially suitable for application scenarios which it is difficult to provide AC power and want to save the wiring costs. EMC Class 4 protection performance; corrugated high-strength aluminum profile shell, IP40 grade, operating temperature of - 40 °C- 75 °C, can work in harsh environments. IS 1024 GS- 8 F- 4 TF can also support various network management functions: Layer 3 routing protocols, complete security protection mechanisms, RUN-Ring (self-healing time <10ms), RSTP, VLAN, QoS, SNMPv1/v2c/v3, IEEE802.1X, SSH/SSL, port mirror, port aggregation, etc. The WD-GS-2210-24S4Fis a reliable solution for intelligent transportation, video surveillance and other harsh industrial environments by its rich redundancy, switching and security management features.





Highlights

Port 6KV lightning protection

•All ports support 6KV lightning protection, power short circuit protection, overvoltage protection and surge current protection features.

Al smart button

•AI Loop Protect: Using the RUN-Ring technology, when the main link of

the network transmission fails, the system automatically switches to the

backup link, and the fault recovery time can reach as fast as 10ms.

•AI VLAN: Isolating ports 1-8 from each other, so that can suppress

network storms effectively and improve network performance.

Powerful application capabilities

•Support 802.1Q VLAN, MAC VLAN, IP VLAN, users can divide VLAN flexibly as needed.

•Support QoS, 8 port queues, support port priority, 802.1P priority, DSCP priority, support SP, WRR, SP+WRR, WFQ priority scheduling algorithm.

•Support ACL, support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function, provide flexible and secure access control policy.

•Supports IGMP v1/v2/v3 Snooping and MLD v1/v2 Snooping to meet the requirements of multi-terminal HD video surveillance or video conferencing. •It supports the fast leave mechanism and querier of Layer 2 multicast, and supports Layer 2 IPv4 static multicast and Layer 2 IPv6 static multicast.

Full security mechanism

•Completed security authentication mechanism: It supports IEEE 802.1x, Radius, Tacacs+, etc.

•The loop detection mechanism can ensure the stable operation of the network for a long time.

•High security features such as port isolation in VLAN, DHCP-Snooping and IP+MAC+port binding, etc., to further ensure user data security.

• Support multi protections like ARP, IP source and DoS.

•Support declining user access by the port numbers, IP address, and MAC address.



Diverse reliability protection

• Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols to eliminate Layer 2 loops and implement link backup.

•Supports loop protection, root bridge protection, TC protection, BPDU protection, and BPDU filtering.

•Supports relay alarm output functions such as power failure and port disconnection.

• EMC Class4 and anti-jamming capability.

Flexible and convenient management and maintenance

Supports various management methods such as Console, Telnet, and SSH.
Support WEB network management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, and is convenient for users to install and debug.

• Supports file upload and download management in TFTP mode.

•Support SNMP V1/V2/V3 to facilitate device management through the network management platform.

•Support one-stop management and maintenance of Fengrunda Apollo cloud platform, which can realize all-round remote operation and maintenance such as automatic device discovery, network topology management, and remote configuration management of devices.

Compliance

EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±6kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall)



Specifications

Hardware		
Network Interface	 24-Port 10/100/1000Mbps RJ45 8-Port 10/100/1000Mbps SFP 4-Port 10 gigabit SFP+ Console ports x1 	
Network Protocol	• IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3ad, IEEE802.3x, IEEE802.1p, IEEE802.1q, IEEE802.1w, IEEE802.1d, IEEE802.1s	
Performance	 Switching capacity:128Gbps (Non-Block) Forwarding ratet: 95.2Mpps Packet buffer: 12Mb Forwarding model: Store and forward 	
LED Indicator	 Power Indicator: P1,P2 System Indicator: SYS Alarm Indicator: ALM SFP Port Indicator: Link&Act F1~F2 RJ45 Port Indicator: Link&Act 1~8 	
Power Supply	 Input voltage: 12-56V DC / 100-240V/50-60Hz AC Input port: Pluggable 5 pin terminals block, 5.08mm pitch (support dual DC power source backup, built-in overcurrent protection, support anti-reverse connection) 	
Physical Parameter	 Casing: Corrugated high-strength metal housing, IP40 Dimension (LxWxH) : 440mm×320mm×44mm 	
Environmental Condition	 Operating Temperature: -40~85°C Storage Temperature: -40~85°C Operating Humidity: 5%~95% RH (non-condensing) Storage Humidity: 0%~95% RH (non-condensing) 	
Certification	• CE/ROHS/FCC	



Software		
Protocol	IEEE 802.3: Ethernet Media Access Control (MAC) protocol	
	IEEE 802.3i: 10BASE-T Ethernet	
	IEEE 802.3u: 100BASE-TX fast Ethernet	
	IEEE 802.3ab: 1000BASE-T gigabit Ethernet	
	IEEE 802.3z: 1000BASE-X gigabit Ethernet(fiber)	
	IEEE 802.3ad: Comply link aggregation standard	
	IEEE 802.3x: Flow control	
	IEEE 802.1p: About the traffic priority of the second layer of Qos / Cos protocol (multicast filtering)	
	IEEE 802.1q: VLAN Bridge operation	
	IEEE 802.1d: STP spanning tree	
	IEEE 802.1s: MSTP spanning tree	
	IEEE 802.1w: RSTP spanning tree	
	Support Layer3 interface	
Layer3 interface	Support IPv4 and IPv6 address configuration	
	Support ARP configuration	
	Support ND configuration	
	Support IPv4 static routing	
	Support IPv4 dynamic routing RIP v1/v2	
Layer 3 routing	Support IPv4 dynamic routing OSPFv2	
	Support IPv6 static routing	
	Support IPv6 dynamic routing RIPng	
	Support IPv6 dynamic routing OSPFv3	
DHCP	DHCP Snooping	
VLAN	4K VLAN	
	802.1Q VLAN、MAC VLAN ,IP VLAN	
	Voice VLAN	
MAC Table	IEEE 802.1d	
	Support MAC address automatic learning and aging	
	Support static, dynamic, filtering address table	

Software		
Password protection		
Security	Decline user access by port number, IP address and MAC address	
	HTTPS、SSL V3、TLS V1、SSH V1/V2	
	Support IP-MAC-PORT ternary binding	
	ARP Protection、 IP source Protection、 DoS Protection	
	Support DHCP Snooping and DHCP attack protection	
	Support 802.1X authentication, AAA	
	Support port security, port isolation	
	Support CPU protection	
ACL	Support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function	
	Support port mirroring, port redirection, flow rate limit, QoS remarking	
	Support 24 port queues	
QoS	Support port priority, 802.1P priority, DSCP priority	
	Support SP, RR, WRR, priority scheduling algorithm	
Spanning Tree	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s)	
	Support loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering	
	Support IGMP v1/v2 Snooping	
Multicast	Support multicast VLAN	
	Supports multicast filtering, packet statistics, and unknown multicast discards	
Storm Suppression	Multicast suppression	
	Broadcast suppression	
	Unknown unicast suppression	
	Static aggregation	
Link Aggregation	Dynamic aggregation	
	Support IP, MAC, and hybrid load balancing modes	
	Up to 32 aggregation groups	
IPv6	IPv6 Ping、IPv6 Tracert、IPv6 Telnet	
	IPv6 SSH 、IPv6 SSL	



Software		
Management and Maintenance	 WEB management (HTTP、HTTPS、SSL V3) CLI (Telnet, SSH V1/V2, Local serial port) SNMP V1/V2/V3 LLDP、RMON ARP protection, IP source protection, DoS protection CPU monitoring, memory monitoring System log, grading warning Support Ping, Tracert detection, cable detection 	