

UN-S5500-24GF4XF-E

28-Port Managed Gigabit Switch with 24-Port GSFP and 4-Port 10G SFP+



- Rich layer 3 features.
- Reliable hardware design with modular dual power supply.
- Excellent manageability.
- High availability.
- High-density 10 Gigabit port.

System Overview

Easy to deploy and cost effective, the UN-S5500-24GF4XF-E switch provides a network-access switching solution with integrated 1 and 10 GbE uplinks. This high density Ethernet switch offers static routing, IRF, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First). It also enhances security and provides flexible management, meeting the needs of small and medium-sized enterprises, industrial parks and more.

Functions

Abundant Service Performance

Supports jumbo frame, IEEE 802.1X, MAC Certification, port security, LACP protocol, 4K VLANs, 16K MAC address table, Black Hole for MAC, port-based layer 2 and layer 3 prior automatic mapping, port mirroring, broadcast redirection, port isolation, Access Control List (ACL). It also limits port speed and offers a variety of IPv6 functions.

Complete Security Control Strategy

Multiple ARP (Address Resolution Protocol) defense functions are supported by the switch, such as ARP broadcast message and the rate limiting of ARP packets. It also verifies users with ARP detection and prevents a large number of ARP broadcast messages from impacting the CPU. The switch supports many types of authentication methods, such as IEEE 802.1X authentication and centralized MAC address authentication. It also easily adapts to the requirements of multiple authentication methods in the network environment.

Scene

Suitable for scenes such as SMEs, chain businesses, branches, government structures, schools, and hotels.

Intelligent Resilient Framework 2 (IRF2)

IRF2 is the stacking technology used in conjunction with the spare ports on the panel. It offers the flexibility to stack over longer distances, such as hundreds of meters across buildings or several kilometers between sites, using long-range transceivers.

Abundant QoS Features

The switch offers abundant QoS features, including:

Priority Settings – Offers packet filtering based on packet header fields from layer 2 through layer 4, including source MAC, destination MAC, source IP, destination IP, TCP/UDP port number, protocol type, and VLAN.

Advanced algorithms – Flexible queuing and scheduling algorithms configured on a per-port or per-queue basis, including strict priority (SP), weighted round robin (WRR), and SP+WRR. It also supports port mirroring in both outbound and inbound directions for network monitoring and troubleshooting.



Technical Specification

Hardware

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| Included Power Adapter | Yes |
| PoE | No |
| CPU Clock Speed | 800 Mhz |
| Memory Size | 512 MB |
| Flash Size | 256 MB |
| Optical Port | 24 × SFP 100/1000 Mbps |
| Optical Port Speed | 100/1000 Mbps |
| Optical Port Uplink Speed | 1/10 Gbps |
| Description of Function Slots | Port 1-24: 24 × SFP 100/1000 Mbps Port 16-24: 8 × 10/100/1000 Mbps BASE-T (combo) Port 25-28: 4 × SFP+ 1/10 Gbps |
| Debugging | 1 × Console port 1 × MGT port 1 × micro usb console |
| Power Supply | 100–240 VAC, 50/60 Hz |
| Operating Temperature | –5 °C to 45 °C (23 °F to 113 °F) |
| Operating Humidity | 5%–95% (RH), non-condensing |
| Storage Temperature | –40 °C to +70 °C (–40 °F to +158 °F) |
| Storage Humidity | 5%–95% (RH), non-condensing |
| Power Consumption | AC Idling: 15 W; Full load: 55 W |

Performance

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| Layer | Layer 3 |
| Management Type | Yes |
| Switching Capacity | 128 Gbps |
| Packet Forwarding Rate | 95.232 Mpps |
| Packet Buffer Size | 1.5Mbytes |
| Jumbo Frame | 10K Byte |
| MAC Table Size | 16K |
| VLAN Number | 4K |
| VLAN Interface | 32 |
| IPv4 Routes | 1K |
| Dynamic ARP | 1K |
| Communication Standard | IEEE 802.3; IEEE 802.3u; IEEE 802.3X; IEEE 802.3ab; IEEE 802.3z; IEEE 802.3ad; IEEE 802.3ae |

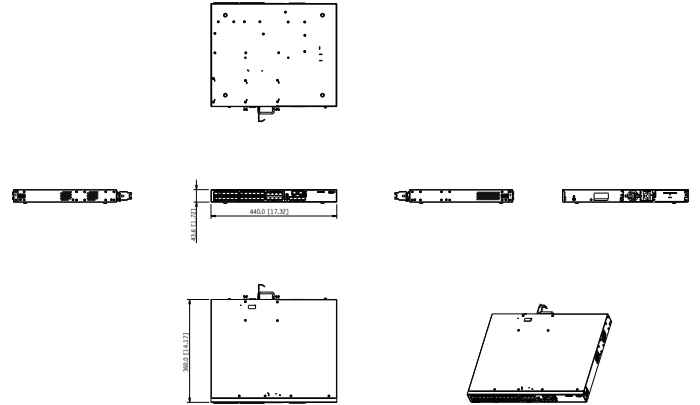
Features

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| Ring Network Protocol | STP/RSTP/MSTP/PVST Smart Link RRPP G.8032 ERPS |
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| Routing | Static routing IPv6 policed routing RIPv1/v2/ng OSPFv2/v3 Policy based routing |
| VLAN Function | Port-based VLAN MAC-based VLAN Protocol-based VLAN Subnet-based VLAN QinQ, flexible QinQ VLAN Mapping Voice VLAN MVRP |
| Link Aggregation | Static link aggregation Dynamic link aggregation Cross-device link aggregation Gigabit Ethernet port aggregation 10 Gigabit Ethernet port aggregation |
| IEEE 802.3x Flow Control | Yes |
| Multicast | IGMP Snooping v1/v2/v3 PIM Snooping Multicast VLAN IGMP v1/v2/v3 |
| Reliability | IRF; VRRP; DLDP; LLDP; VCT |
| ARP | ARP source suppression Dynamic ARP source detection ARP anti-attack ARP detection ARP rate limit |
| DHCP Function | DHCP Client DHCP Snooping DHCP Relay DHCP Server DHCP Snooping option 82 DHCP Relay option 82 DHCP Snooping Trust DHCP Snooping entry backup |
| Security | Multi-level user management and password protection 802.1X RADIUS SSH 2.0 Port isolation HWTACACS IP/Port/MAC binding IP Source Guard HTTPS Triple |
| QoS/ACL | 802.1p/DSCP priority tag Packet filtering SP/WRR/SP+WRR queue scheduling Port-based rate limit Traffic-based redirection Time range |
| IPv6 | ICMPv6 Traceroute v6 Telnet v6 SSH2 v6 ND/ND snooping/ND proxy/ND detection SAVI IPv6 Portal DNS Client for IPv6 SNMP for IPv6 RIPNG and OSPFv3 IPv6 policy routing MLD Snooping v1/v2 VRRP V3 DHCPv6 snooping/DHCPv6 client/DHCPv6 relay/ DHCPv6 server IPv6 port binding |

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| Equipment Management | Load update files and update using Xmodem/FTP/TFTP Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 Web network management RMON alarm, RMON event, and RMON history System logs, multi-level alarms, and debug information HGMPv2 NTP Ping and Tracert VCT DLDLP Port loopback detection Power supply, fan, and temperature alarms BFD |
|-----------------------------|---|

Dimensions (mm [inch])



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|-----------------------------|--|
| General | |
| Lighting Protection | Common mode: 2 kV Differential mode: 1 kV |
| Net Weight | 4.00 kg (8.82 lb) |
| Product Dimensions | 440 mm × 360 mm × 43.6 mm (17.32" × 14.17" × 1.72") |
| Packaging Dimensions | 572 mm × 554 mm × 115 mm (22.52" × 21.81" × 4.53") |
| Certifications | CE EMC: FCC |

Ordering Information

| Type | Model | Description |
|------------|-------------------|--|
| SFP Module | SFP-1310T-20-SMF | 155M 1310/1550 nm, 20 km, LC, Single-mode |
| | SFP-1310R-20-SMF | 155M 1550/1310 nm, 20 km, LC, Single-mode |
| | GSFP-1310-20-SMF | 1.25G 1310nm, 20km, LC, Single-mode |
| | GSFP-1310R-20-SMF | 1.25G 1550/1310 nm, 20 km, LC, Single-mode |
| | GSFP-1310T-20-SMF | 1.25G 1310/1550 nm, 20 km, LC, Single-mode |
| | TSFP-1270T-20-SMF | 10G 1270/1330 nm, 20 km, LC, Single-mode |
| | TSFP-1270R-20-SMF | 10G 1330/1270 nm, 20 km, LC, Single-mode |
| | SFP-850-MMF | 155M 850 nm, 2km, LC, Multi-mode |
| | GSFP-850-MMF | 1.25G 850 nm, 500 m, LC, Multi-mode |
| | TSFP-850-MMF | 10G 850 nm, 300m, LC, Multi-mode |

