

Introduction

It is a Layer 3 1G/10G Hybrid rate Managed Ethernet Switch featuring

- seamless connection for 10/100/1000M Ethernet
- with LED indicators to display the connection and operation of equipment
- easy to manage and maintain

It can be used as core layer, distribution layer, and access layer switch for various business network applications

Key Features

- 4*1G/2.5G/10G SFP+ uplink slots, 8*1G SFP/RJ45 COMBO ports downlink+16*10/100/1000M RJ45 ports, 1* RJ45 console port and 1* USB port for basic management and setup
- Layer 3 features: Support static and dynamic routing, RIP, OSPF, BGP4, ECMP, VRRP
- Port aggregation: Support GE ports, 2.5GE and 10GE port aggregation, static and dynamic aggregation
- VLAN : Support access, trunk, hybrid mode and VLAN classification, including the Mac based VLAN, IP based VLAN and protocol based VLAN
- QinQ: Support port-based, VLAN-based and flow-based QinQ
- Port Mirroring: Many to one port mirroring
- Layer 2 ring network protocol: Support STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring
- Multicast: Support IGMP snooping
- QoS: QoS class, remarking, Support SP, WRR queue scheduling, Ingress/Egress port-based rate-limit and policy-based QoS
- Security: Support 802.1x, port authentication, mac authentication, RADIUS service
- Support port-security, ip source guard, IP/Port/MAC binding, arp-check and ARP packet filtering for illegal users and port isolation
- Management: Support LLDP, user management and login authentication; SNMPV1/V2C/V3; web management, HTTP1.1, HTTPS; Syslog; RMON(Remote Monitoring)alarm, event and history record; NTP, temperature monitoring; Ping, Tracert and optical transceiver DDM function; Support TFTP Client, Telnet Server, SSH Server and IPv6 Management
- Firmware update, configure backup/restore through Web UI, FTP and TFTP

Specification

Product Name	32 Port Hybrid Rate Rack Type Managed Ethernet Switch
Port	8*Gigabit SFP Ports(Combo) 24*10/100/1000M UTP RJ45(With Combo Ports) 4* 10G SFP+ Ports 1*RJ45 Console Port(115200,8,N,1) 1*USB 2.0 port
Network Protocol	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-T Ethernet IEEE 802.3z 1000Base-X Ethernet IEEE802.3x Flow Control and Back Pressure IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1Q VLAN ITU-T G.8032 ERPS IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3ad LACP
Fiber Option	SFP Plug-able Module(LC), 1G , 2.5G or 10G based Default speed is 10G, 1G or 2.5G speed needs to be manually configured in the Web UI It is NOT supporting auto-detecting, manual configuration is required It is NOT supporting 100M optical module nor configurable SM: 1310nm/1550nm, 20Km; 1490nm/1550nm, 40~100Km MM: 1310nm, 2Km; 850nm, 500-meter
Switching Capacity	128Gbps
Packet Forwarding Rate	190.4Mpps
MAC Address Table	16K
VLAN	4K
Buffer	12Mbit
Forwarding Delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Power	AC100-240V Input, Single Power Input(default) Dual Power Input is optional, support fan monitoring/dual PSU status monitoring Fan monitoring: support normal/failure mode Fan speed: support high/low speed mode, configuring fan speed is NOT supported
Total Power Consumption	Full loading≤25W
Over-current Protection	Support
Watchdog	Support
MTBF	100,000 hours
Certification	CE/FCC/RoHS/Reach/UKCA
Working Environment	Working Temperature: 0°C~50°C Storage Temperature: -10°C~70°C Working Humidity: 10%~90%, non-condensing Storage Temperature: 5%~95%, non-condensing
LED Indicator	PWR(Power indicator) On: power status is normal Off: power off or power connection failure S(System indicator) On: Normal operation Off: Connection failure

	Blinking: Device initialization USB(USB status indicator) On: USB flash drive is detected by device Blinking: the device is reading and writing the data from USB flash drive Off: USB flash drive is not inserted or not detected by device Ethernet Port 1. Green Indicator On: port link up Off: port link down Blinking: data is in normal transmission 2. Yellow Indicator On: port speed is 1000M Off: port speed is 10/100M Fiber port, Green Color On: port link up Off: port link down Blinking: data is in normal transmission
--	--

Packing Information

- 1pc switch(neutral device)
- 1pc power cable(standards vary across countries)
- 1pc user manual(including QIG information)
- 1pc console cable(USB 2.0 to RJ45 connector)
- 1pair mounting brackets(rack mountable)

Please know that there is NOT a warranty card in the packing box

A “Warranty Certificate” will be issued to indicate the order information and warranty coverage



Shipping box information(**Below information is approximately accurate**)

Product size: 440*245*44mm

Inner box size: 525*390*95mm

Product weight: 3.2Kg

Packing weight: 4Kg

Master box size: 545*495*420mm

Packing quantity: 5Pcs

Packing weight: 22Kg

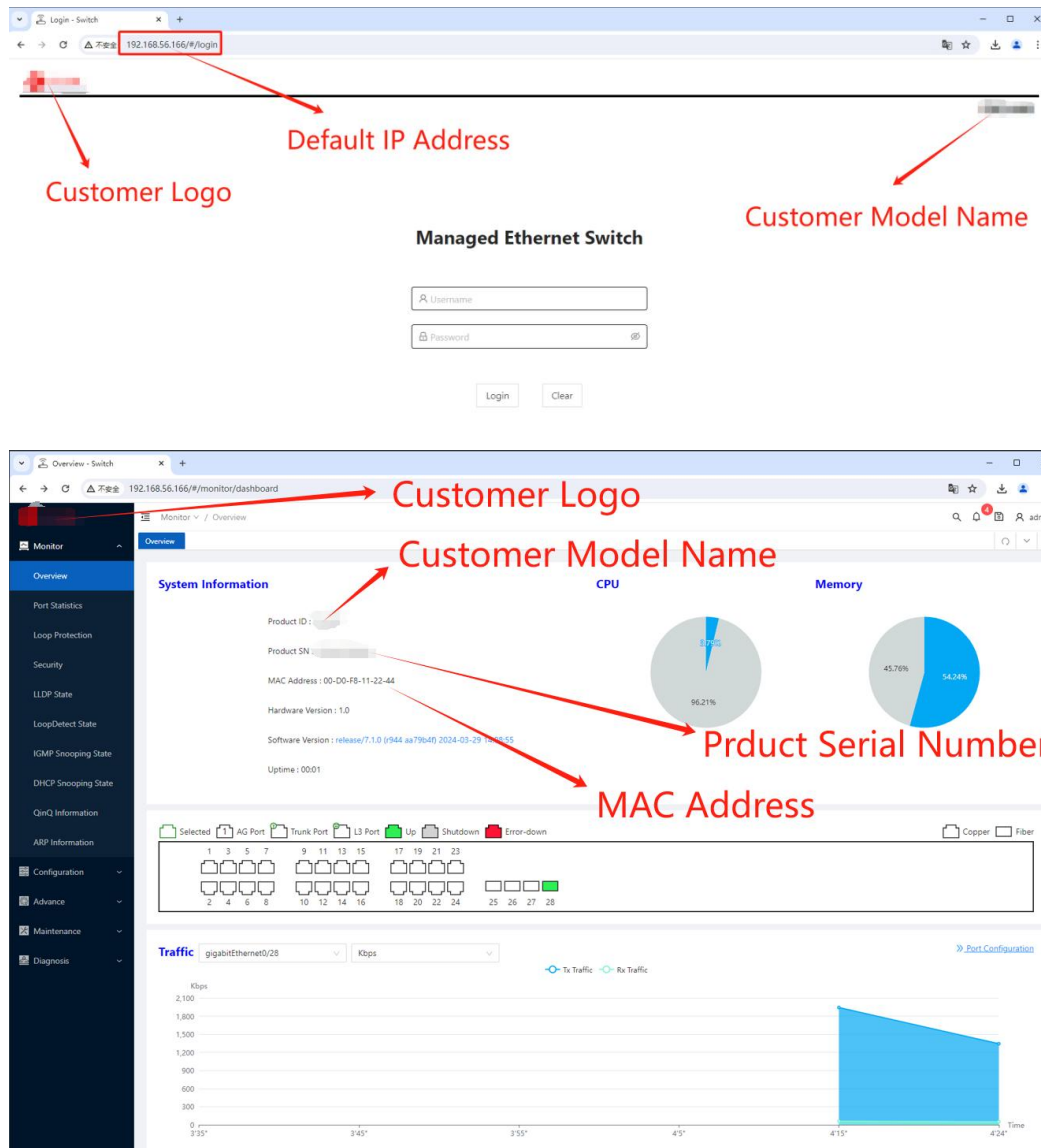
Remark

Accessories(Optical module, network cable, patchcord etc.)are NOT included in the packing box

Please prepare it by yourself or purchase a whole set from us

Power cable is included in BOTH the packing box AND unit pricing

Web UI



Above changes are free of cost(even for 1 piece only)

Default IP: 192.168.56.166

User Name/Password: admin/admin

Please contact us if you need to check

- Web Manual
- CLI Manual
- Full Software Function List

Unavailable features

Below features are not available for now, and we are NOT going to develop it in 2 or 3 years

- NAT
- Stacking
- SD-WAN
- TSN
- MPLS
- Cloud Management

*An Engineering & Supply-Chain-First Telecom Partner
Built to Last, Continuous Supply, Evolving Together*

L3 Function

ARP	ARP table aging
DHCP Server	
IPv4/IPv6	Static routing
ECMP	Support ECMP(Equal-cost multi-path routing) Support the configuration of ECMP Max next-hop Support capacity balanced configuration
Route Policy	IPv4 prefix-list
VRRP	Virtual Router Redundancy Protocol
Routing Protocol Specification	
RIP	RIPv1/v2
OSPFv2	OSPFv2
BGP4	BGP4 BGP Support Routing Recursive ECMP Support to view the number of neighbors and up/down state
IS-IS	IS-ISv4
Routing Entry	13K
ARP	ARP table aging
DHCP Server	
IPv4/IPv6	Static routing
ARP	ARP table aging
DHCP Server	
IPv4/IPv6	Static routing

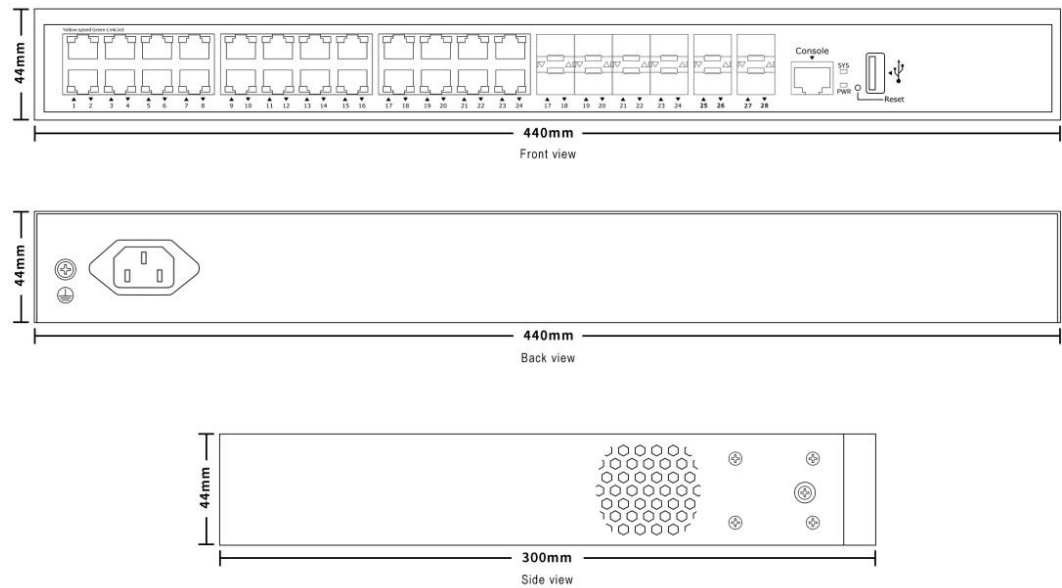
L2 Function

Port Aggregation	Support GE port aggregation Support 2.5GE aggregation Support 10GE aggregation Support static aggregation Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group
Port Features	Support IEEE802.3x flow control Support interface counters Support port isolation Port mirroring(One-to-One, Many-to-One) Support loop detection(Port-based; VLAN-based) Support broadcast storm suppression(broadcast; unknown multicast; unknown unicast)
Mac-address Table Management	Support static Mac-address management Support dynamic Mac-address Management Support filtering Mac-address Support MAC limit based on port and VLAN Support MAC flapping based on port and VLAN
VLAN	Support access mode Support trunk mode Support hybrid mode
VLAN Classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN
GVRP	Normal mode Fixed mode Forbidden mode

QinQ	Port-based QinQ VLAN-based QinQ(VLAN-stacking; VLAN-mapping) Flow-based QinQ
LLDP	LLDP(Link Layer Discovery Protocol)
Ring Network Protocol	Support IEEE802.1D-STP Support IEEE802.1W-RSTP Support IEEE802.1S-MSTP Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time $\leq 20\text{ms}$(based on Marvell switching chipset under ring topology with Rapid Ring Protocol enabled) Typical ring topologies: single ring, dual ring, tangent ring, intersecting ring, nested ring(ring-in-ring), chain-type and hybrid structures
L2 Multicast	
IGMP Snooping	Support
Group Address	Support
Security Function	
ACL	IP Standard ACL MAC extend ACL IP extend ACL IPv6 ACL
QoS	Support QoS Class, remarking Support SP, WRR queue scheduling Ingress port-based rate-limit Egress port-based rate-limit Support policy-based QoS
802.1x	Port access control Mac-address access control RADIUS server
Port-security	Port-security
IP Source Guard	IP Port/MAC binding
ARP-check	Support ARP-check and ARP packet filtering for illegal users
Access Control	Support Telnet/SSH/HTTP/HTTPS user access control
Management & Maintenance Function	
User Management	Support password protection Support user authorization management
SNMP	Supporting SNMP V1/V2C/V3 version
Web Management	Web Management Support HTTP V1.1 Support HTTPS
CLI Management	Console/Telnet command line management
RMON	Support RMON(Remote Monitoring)alarm
Firmware Upgrade	Firmware upgrade
Fault Detection	Ping/Tracerout Dying gasp Support optical transceiver DDM function
Cable Detection	Support copper port cable detection
NTP	Network Time Protocol
Syslog/Debug	Syslog/Debug Syslog send to two servers
Configuration Import/Export	Support FTP/TFTP remote import/export Support USB import/export SFTP is supported
Dual Partition Management	Support dual partition switching
Application Protocol Function	

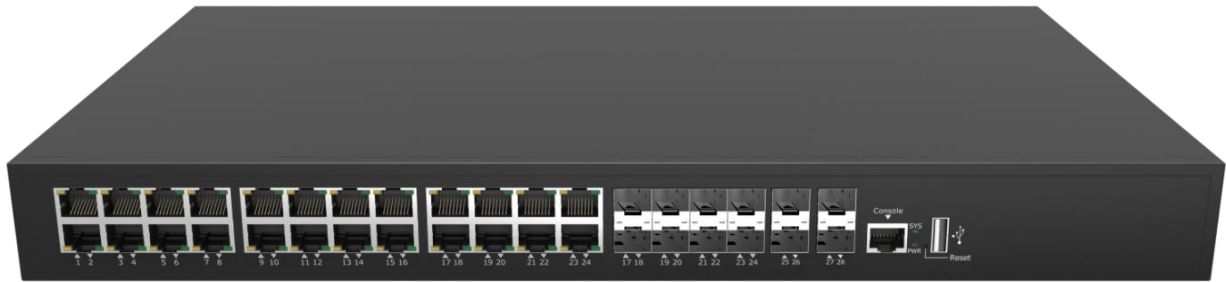
DHCP Snooping	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82
DHCP Client	Support DHCP client
Telnet Server	Support telnet server
Telnet Client	Support telnet client
SSH Server	Support SSH server
TACACS	Support TACACS(the terminal access controller accesses the control system)
sFlow	Support network traffic analysis
TFTP	Support TFTP Client

Mechanical Drawing



Remark
Please contact us if the source file is needed

Product Picture



Remark
Please let us know if you need to check the PCBs

*An Engineering & Supply-Chain-First Telecom Partner
Built to Last, Continuous Supply, Evolving Together*