



◆ Layer 3, 48-port 10/100/1000M Base-T (x) +4-port Gigabit SFP

➤ Features

- Support 48 Gigabit RJ45 ports +4 Gigabit SFP ports
- Support RIP,OSPF,PIM Layer 3 Routing protocol
- Support MW-Ring,MSTP,VRRP,EAPS redundance network
- According to the IEC61850-3 standard and the State Grid level A standard
- Support various management method and the network centralized management
- Support storm control function, can uni-cast, broadcast, unknown uni-cast message storm suppression
- Support ring network detection, innovative network diagnostic function
- Industrial IP40 protection class, EMC circuit design, support wide temperature and wide voltage, fanless noiseless machine thermal design
- Fanless shell design with front and back sides indicator light



➤ Introduction

This section Gigabit switch is based on the standard three-layer non-blocking switch. With modular design, 48 10/100/1000 adaptive TP port, 4 multiplexed Gigabit SFP optical ports, providing sufficient data for aggregation and core data exchange of the bandwidth; to provide high-capacity switching capabilities to support based on the three layers of ACL function. Perfect security control strategy and CPU protection policy to improve fault tolerance and ensure stable operation of the network and link load balancing.

The device supports automatic DoS attack defense and SNMP, IEEE 802.1, spanning tree and spanning tree protocol, Link aggregation and other functions, suitable for small and medium enterprises, campus network, Internet cafes and the use of the edge of the metropolitan area network.

➤ Application Industries

- HD monitor transmission and power supply
- Wireless AP layout transmission and power supply
- Network telephone transmission , intelligent house and home system
- Intelligent transportation supervisory system (ITS)
- High-speed Way supervisory/Tele-Communication System
- Security protection system, TV medical treatment
- Long-distance Multi-media Schooling, Campus monitoring
- Long-distance broadcast television transmission system
- High-building Security Protection, Military Tele-Com project

➤ Specification

Interface	
Port	48*10/100/1000M TP ports+4 Gigabit SFP ports+ 1 console port
Network Protocols	IPv4/IPv6, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3az, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1x, IEEE 802.1p
Bandwidth	104Gbps
Switch Delay	<5 μs
MAC Table Size	64K
VLAN Numbe	4096
Route Table	16K
Priority Queues	8
IGMP Groups	1K
Dimension	440*315*88mm
weight	4KG
Power supply	AC/DC220V (85-264VAC/110-370VDC)
Power Consumption	<35w (MAX)
Indicator light	Power indicator, System indicator, Link/Act
Enviromental tem./humidity	-40-75°C Operating, -45-85°C store, 0-90% No condensation
L2 Software Features	
Port management	Enable / disable port Speed, duplex, MTU settings, etc Flow-control flow control setup Port information view, etc.
Port mirroring	Support port access direction, vlan mirror (Vlan mirroring only supports command line configuration)
Port speed limit	Support , speed limit by the chip
Port isolation	Support
Storm suppression	Supports unknown unicast, unknown multicast, broadcast storm suppression
Link aggregation	Supports static manual aggregation Support LACP dynamic aggregation
VLAN	Access Trunk Hybrid (Replaced by trunk) Supports VLAN assignment based on port, protocol, MAC Support GVRP dynamic VLAN registration (Only supports command line configuration) Voice VLAN
MAC	Support static add, delete MAC address learning limit Support for dynamic aging time settings
Spanning Tree	Support 802.1d (STP) (Also Support ERPS) Support 802.1w (RSTP) Support 802.1s (MSTP) Support static add, delete

IGMP-snooping	Supports v1 / 2/3 dynamic multicast listening
L3 Software and Routing	
Interface configuration	Support SVI
	Support Static ARP
ARP	Support Set ARP Aging time
VRRP	Supports VRRP route backup
ND	Support IPv6_ND Configuration
Routing	Static Router
	RIP (V1/V2)
	OSPF(V2)
	BGP
	RIP/OSPF/BGPSupport route authentication function
	RIP/OSPF/BGPSupport route import, filter function
Extension	
ACL	Based on source MAC, destination MAC, protocol type, source IP, destination IP, L4 port number
	Support time-range time period management
QOS	Based on 802.1p (COS) classification
	Based on DSCP classification
	Based on source IP, destination IP, port number classification
	Support SP, WRR, DRR scheduling strategy
	Support rate speed limitCAR
LLDP	Supports LLDP link discovery protocol
User setting	Add/Delete users
Log	Userlogin, operation, status, event log
	DOS Defense
Anti-attack	Support CPU protection, limit the rate of sending cpu packets
	ARPBind(IP,MAC,PORT Bind)
Network diagnosis	Support ping,telnet,trace
System management	Device reset, configuration save / restore, upgrade management, time setting, and so on
Management Function	
CLI	Supports serial command line management
TELNET	Support telnet remote management
WEB	Support L2
Others	Support DHCP Snooping,DHCP Server,DHCP relay
	Support ring protection - this feature is "ERPS"above the list
	Support SNMPV1/V2C/V3
Certification	ROHS,3C
	European Community (CE) Electromagnetic Compatibility Directive:This equipment has been tested and found to comply with the protection requirements of European Emission Standard EN55022/EN60555-2 and the Generic European Immunity Standard EN50082-1.
	EMC: EN55022(1988)/CISPR-22(1985),
	class A EN60555-2(1995), class A
	EN60555-3
	IEC1000-4-2(1995),4K V CD, 8KV, AD

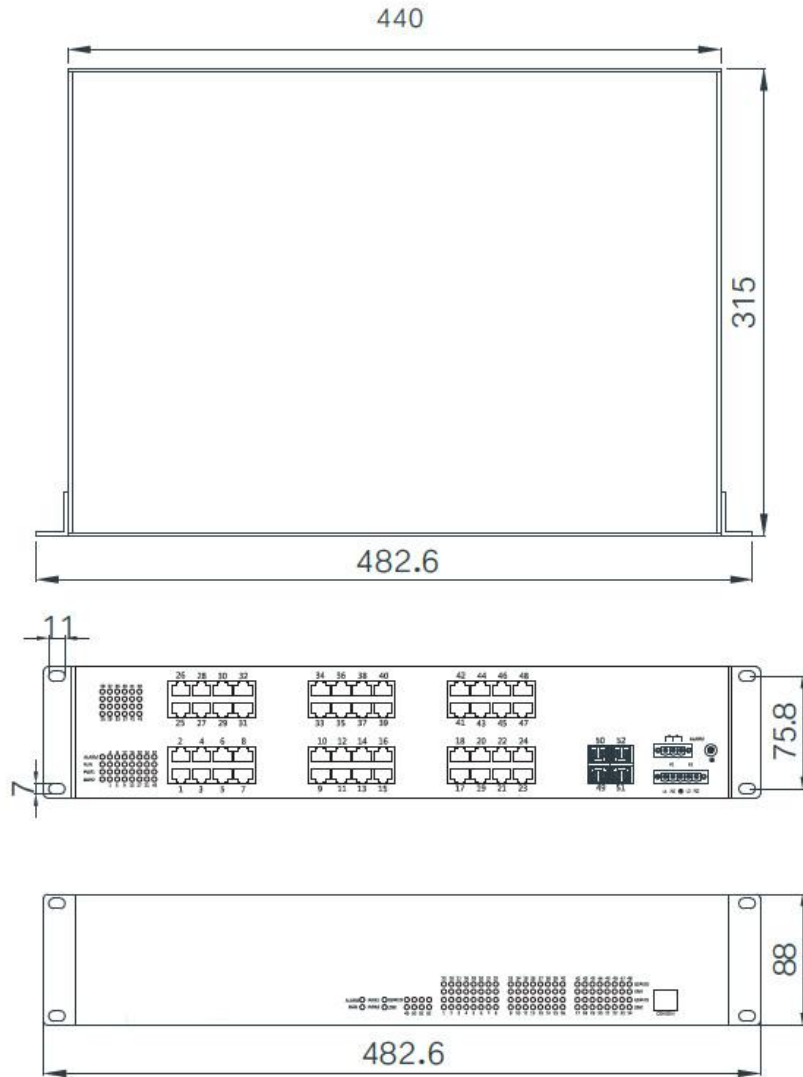
IEC1000-4-3(1995),3V/m

IEC1000-4-4(1995),1KV – (power line), 0.5KV – (signal line)

Warranty

5 years

➤ Dimension



➤ Packing List

- Layer 3 Industrial Ethernet Switch ×1
- User manual x 1
- Certificate of quality x 1
- Warranty card x 1