



Industrial Ethernet Switch

ICS1036G-24G-8GS-4TS

◆ Layer 3, 24-port 10/100/1000M Base-T (x) +8-port Gigabit SFP +4-port 10G SFP+

➤ Features

- With 128G back plane bandwidth, wire-speed three-tier exchange packet forwarding rate of 96Mpps
- Support software dynamic routing, static routing function
- Auto MDI/MDI-X, Full duplex: Flow control, Half duplex: Back pressure
- Support IEEE 802.1Q VLAN,MAC VLAN,VLAN, Private VLAN and VLAN VPN
- Web-based GUI and CLI management
- Support traditional STP / RSTP / MSTP Layer 2 link protection technology to ensure stable operation of the network
- Can be managed through the Web, SNMP Console telnet and other ways.
- Support 10 Gigabit port aggregation function: link aggregation, improve network bandwidth; link backup, to ensure network security
- Support CPU protection strategy, the CPU packets sent to the traffic classification and flow limit, to avoid illegal attacks on the CPU attacks and resource consumption
- Support storm control function, can uni-cast, broadcast, unknown uni-cast message storm suppression
- Support restore factory settings via reset button
- Support ring network detection, innovative network diagnostic function
- Low-carbon environmental protection and energy conservation, follow the IEEE 802.3az port to provide low-power idle mode, according to the cable length of the corresponding output power adjustment, and support port sleep
- Industrial IP40 protection class, EMC circuit design, support wide temperature and wide voltage, dual redundant backup power supply, fanless noiseless machine thermal design



➤ Introduction

This section Gigabit switch is a BCM chip based on the standard three-layer non-blocking switch. With modular design, 24 10/100/1000 adaptive TP port, 8 multiplexed SFP optical ports, 4 integrated 10G 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 or four 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	24*10/100/1000 Self-adaptive TP ports,8 SFP Combo ports + 4 ports 10G SFP port , 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	128Gbps
Forwarding rate	96Mpps
Processor	ARM® Cortex™-A9
Flash memory capacity	8MB
Memory Capacity	256M
MAC address table	12K
Queue buffer	64MB
Remote upgrade	Support upgrade through the web version or the local version upgrade
Dimension	444x360x44mm
weight	2.86KG
Power supply	AC110-240V- DC5V-48V
Power	NO POE ≤20W,POE≥360W(Af),POE≥500W(At)
Indicator light	Power indicator,System indicator,Link/Act
Enviromental tem./humidity	-40-75℃ Operating,-45-85℃ 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)
IGMP-snooping	Support static add, delete Supports v1 / 2/3 dynamic multicast listening
L3 Software and Routing	
Interface configuration	Support SVI
ARP	Support Static 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
Anti-attack	DOS Defense 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

➤ Packing List

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