

20 Port Gigabit Managed Ethernet PoE Switch

IV-POE1611



   **CE FC RoHS**

The 20-Ports Gigabit Managed PoE Switch . It adopts High-Quality and High-Speed Network IC and the most stable PoE Chip. The PoE port meets the IEEE802.3af or IEEE802.3at standard. This model can provide seamless connection for 10/100/1000M Ethernet, and the PoE power port can automatically detect and power the powered devices that comply with the IEEE802.3af or IEEE802.3at standards. The Non-PoE devices are forcibly powered and only transmit data.

Main Features

- 16 x 10/100/1000Mbps auto-sensing PoE Ports, 2 x 10/100/1000Mbps Ethernet Uplink Ports, 2 x Gigabit SFP Uplink Ports, 1 x Console Port
- Support IEEE802.3/IEEE802.3i/IEEE802.3u/IEEE802.3ab/IEEE802.3z
- Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w)
- Ethernet port supports 10/100/1000M adaptive
- Panel indicator monitoring the status and help failure analysis
- Fanless design, Natural Cooling, 1U Rack Mount
- Support 802.1x port authentication, support AAA authentication, support TACACS+ authentication
- Support WEB, TELNET, CLI, SSH, SNMP, RMON management
- Support PoE Power Management, PoE watch dog
- Surge Protection: General 6KV, Differential 2KV, ESD 8KV air, 6KV contact

Application Environment

Metro Optical Broadband Network:

Data network operators such as telecommunications, cable TV, and network system integration,etc.

Broadband private network:

Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries

Multimedia transmission:

Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications

Real-time monitoring:

Simultaneous transmission of real-time control signals, images and data



Specifications

I/O Interface

Power	AC 100-240V/50-60Hz
Ethernet	16 * 10/100/1000Mbps PoE Port 2* 10/100/1000Mbps Uplink Port 2* 1000Mbps SFP Port 1 * RJ45 Console Port

Performance

Bandwidth	40Gbps
Packet Forwarding rate	29.76Mpps
Packet Buffer Memory	4Mbit
Flash Memory	16MByte
DDR SDRAM	128MByte
MAC Address	8K
Jumbo frame	9.6Kbytes
VLANs	4096
MTBF	100000 hour

Standard

Network protocol	<p>IEEE 802.3: Ethernet MAC Protocol</p> <p>IEEE 802.3i: 10BASE-T Ethernet</p> <p>IEEE 802.3u: 100BASE-TX Fast Ethernet</p> <p>IEEE 802.3ab: 1000BASE-T Gigabit Ethernet</p> <p>IEEE 802.3z: 1000BASE-X Gigabit Ethernet (optical fiber)</p> <p>IEEE 802.3ad: Standard method for performing link aggregation</p> <p>IEEE 802.3x: Flow control</p> <p>IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol)</p> <p>IEEE 802.1p: LAN Layer QoS/CoS Protocol Traffic Prioritization(Multicast filtering function)</p> <p>IEEE 802.1q: VLAN Bridge Operation</p> <p>IEEE 802.1x: Client/Server Access Control and Authentication Protocol</p> <p>IEEE 802.1d: STP</p> <p>IEEE 802.1s: MSTP</p> <p>IEEE 802.1w: RSTP</p>
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PoE protocol	IEEE802.3af (15.4W) IEEE802.3at (30W)
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD)、 EN61000-4-5 (Surge)
Network Medium	10BASE-T: Cat3、4、5 or above UTP(≤ 100 M) 100BASE-TX: Cat5 or above UTP(≤ 100 M) 1000BASE-TX: Cat5 or above UTP(≤ 100 M)
Fiber Medium	Multi-mode Fiber: 50/125、62.5/125、100/140um Single-mode Fiber: 8/125、8.7/125、9/125、10/125um
Certification	
Safety Certificate	CE、FCC、RoHS
Environment	
Working Environment	Working Temperature: $-10\sim 50^{\circ}\text{C}$ Storage Temperature: $-40\sim 70^{\circ}\text{C}$ Working Humidity : 10%~90%, non-condensing Storage Temperature: 5%~95%, non-condensing
Physical specifications	
Structure Size	Product Dimensions: 440*204*44mm Package Dimensions: 500*290*85mm Product N.W: 2.78KG Product G.W: 3.44KG
Packing Info	Carton Dimensions: 520*445*310mm Packing Quantity: 5pcs Packing weight: 18.2KG
Power Voltage	Input Voltage : AC 100-240 V/50-60Hz Power Supply: 52V5.76A
power	Product power: $\leq 15\text{W}$ POE power: $\leq 280\text{W}$
Package List	Ethernet switch: 1 Set、 Instruction manual: 1 PCS、 Certificate: 1 PCS、 Power cord: 1PCS Serial cable: 1PCS、 Rack ear: 1 Pairs



function&Indication	
LED Indicators	PWR, SYS, PoE/ACT、Link/ACT
PWR (Power Indicator)	Lighting: Powered Un-Light: No Power
SYS (System Indicator)	Flashing: System Start-up Lighting: System Running
PoE/ACT (PoE Indicator)	Lighting: PoE on Un-Light: PoE off
Link/ACT (Link &Data Indicator)	Lighting: Link connection Flashing: Data transmission Un-Light: Link disconnect
Reset	Short press restart, long press 5 seconds to restore factory Settings

L3 Function	
IPv4	IPv4 VLAN Interface
	IPv4 Static Routes
	ARP
IPv6	IPv6 VLAN Interface
	IPv6 Static Routes
	IPv6 ND
L2 Function	
Port	Port Switch
	Port Description
	Port Speed
	Port Duplex
	Port Flow Control
	Jumbo, Up to 10K
	EEE
	Fiber Module(DDM)
Link Aggregation	Supports load balance policy; Base on MAC and IP-MAC
	Static and Dynamic Group
	Supports LACP
	Up to 8 groups
Storm Control	Boardcast
	Unknown Multicast
	Unknown Unicast

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Port Mirroring	One to one monitor
	Many to one monitor
	Ingress/Egress/Both
	Up to 4 session groups
Port Security	MAC Address Constraints
	Port Security MAC Address
	Protect/Restrict/Shutdown
Port Isolation	
Port Rate-limit	
Loopback Detection	
VLAN	Access/Trunk/Hybrid
	VLAN Tunnel (Q-in-Q Tunnel)
	Congurable VID from 1 - 4094; Max. 256 static VLAN groups
	Voice VLAN
	MAC VLAN
	Surveillance VLAN
	Protocol VLAN
	GVRP
MAC Address	Dynamic Address
	Static Address
	Filtering Address
Spanning Tree Protocol	STP/RSTP/MSTP
	BPDU Filter
	BPDU Guard
	Edge Port
LLDP	LLDP
	LLDP MED
Multicast	IGMP Snooping
	IGMP V1/V2/V3
	Router Port
	Static IGMP group address
	IGMP groups filtering
	Querier
	MLD Snooping
	MVR
QoS	Traffic classification based, Strict priority and WRR
	Port Priority
	802.1P Priority
	IP TOS Priority
	IP DSCP Priority
	Supports up to 8 queues per port
	Priority Remarking

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PoE	
PoE Configuration	PoE Temperature
	PoE Type/Level/Power/Voltage/Current
	PoE Switch
	PoE Watchdog
	PoE power AF/AT adaptation
PoE Schedule	
PoE Port Timer Reboot	
Services	
DHCP	DHCP Server
	IP Pool
	Static Binding
	DHCP Relay
Access Protocol	HTTP
	HTTPS
	Telnet
	SSHv2
	Manager ACL
	Session Timeout
	Password Retry Count
Silent Time	
Security	
AAA	RADIUS
	TACACS+
	802.1X
	Base on port/MAC/local/WEB
DHCP Snooping	Global/VLAN
	Option 82
	Circuit ID
IP Source Guard	
Dynamic ARP Inspection	
DoS	
ACL	MAC ACL
	IPv4 ACL
	IPv6 ACL
Diagnostics	
Syslog	Logging Message
	Remote Server
Ping	
Traceroute	
Copper Test	
UDLD	



Managemnet	
Manager Access	Console
	HTTP/HTTPS
	Telnet
	SSH
	SNMP
Manager IP	Static Address
	DHCP Client
	Supports IPv4 and IPv6 address
	Manager VLAN
	DNS
Time Synchronization	SNTP
	Manual Time
SNMP	V1/V2C/V3
	Community
	V3 User
	Group
	Trap Host
SNMP MIB	RFC 1213 MIB-II
	RFC 1493 Bridge MIB
	RFC 1643 Ethernet MIB
	RFC 2819 RMON MIB (Groups 1, 2, 3 and 9)
	RFC 2863 Interface MIB
	LLDP
	Private MIB
RMON	Statistics
	History
	Event
	Alarm
User	
Firmware	Firmware Upgarde
Configuration	Upload and download
Save	
Restart	
Factory Defaults	

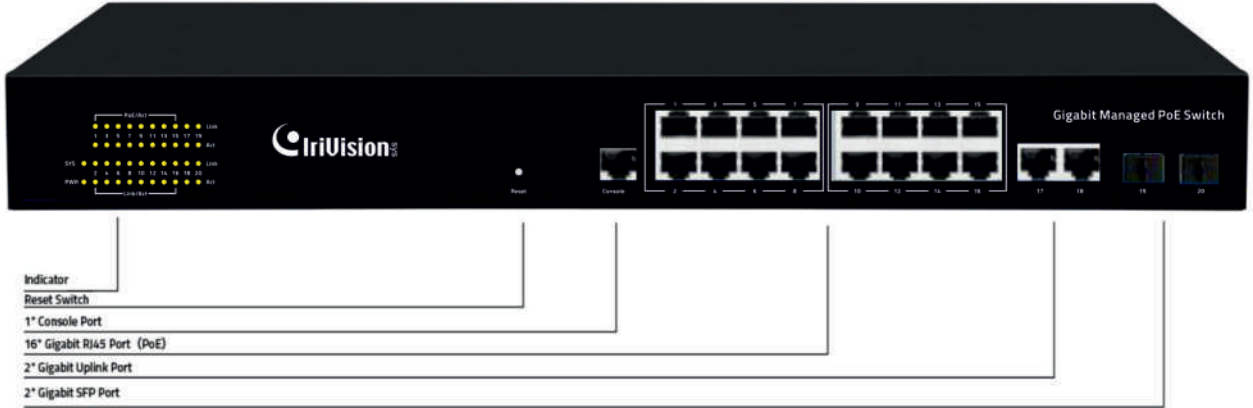


Standards Compliance
IEEE 802.3x flow control and back pressure
IEEE 802.3ad port trunk with LACP
IEEE 802.1D Spanning Tree Protocol
IEEE 802.1w Rapid Spanning Tree Protocol
IEEE 802.1s Multiple Spanning Tree Protocol
IEEE 802.1p Class of Service
IEEE 802.1Q VLAN tagging
IEEE 802.1x Port Authentication Network Control
IEEE 802.1ab LLDP
IEEE 802.3af Power over Ethernet
IEEE 802.3at Power over Ethernet Plus
RFC 768 UDP
RFC 793 TFTP
RFC 791 IP
RFC 792 ICMP
RFC 2068 HTTP
RFC 1112 IGMP v1
RFC 2236 IGMP v2
RFC 3376 IGMP v3
RFC 2710 MLD v1
RFC 3810 MLD v2

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Panel description



Product structure

