

Model:

E822: Managed L2 Switch



Smart Connectivity for the Enterprise Edge

Designed to power and protect your business network, it combines gigabit speed, PoE+ efficiency, and robust security features



8 x Gigabit PoE+ ports, 2 x SFP uplinks, and 1 x console port for seamless network expansion.



Delivers 130W total PoE power, compliant with IEEE 802.3af/at, ideal for IP cameras and access points.



20 Gbps switching capacity with a fanless, energy-efficient design for quiet reliability.



Advanced L2+ features including VLAN, QoS, ACL, and SNMP for intelligent traffic control.



Enterprise-grade protection against unauthorized access and network attacks.



ERPS ring recovery <20 ms and 4 kV lightning protection for maximum uptime and safety.





8 × Gigabit PoE+
Ports | 2 × SFP
Uplinks | 1 ×
Console Port |
130W Total PoE
Power



PRODUCT OVERVIEW

The **E822** is a high-performance Layer 2+ Managed Gigabit PoE Switch designed to meet the networking demands of modern enterprises, campuses, and service providers. It is Equipped with 8 Gigabit RJ45 PoE+ ports, 2 Gigabit SFP uplink ports, and 1 Console port, this switch delivers superior data throughput and intelligent management.

FEATURES

- Supports IEEE 802.3i/802.3u/802.3ab/802.3z/802.3x/802.3az/802.3af/802.3at standards
- 8 × 10/100/1000 Mbps RJ45 PoE+ ports (up to 30 W per port, 130 W total)
- 2 × Gigabit SFP fiber ports + 1 Console port
- 20 Gbps switching capacity with 14.88 Mpps forwarding rate
- Store-and-Forward switching mode for optimal packet integrity
- Fanless design for silent, energy-efficient operation

RELIABILITY & PROTECTION

- ERPS ring protection (<20 ms recovery) for carrier-class uptime
- 4 kV lightning protection on service ports
- Internal power supply with 100–240 V AC input
- Full metal 19-inch rackmount design
- AI Smart PoE with watchdog functionality for auto-recovery of PD devices

ADVANCED SECURITY & CONTROL

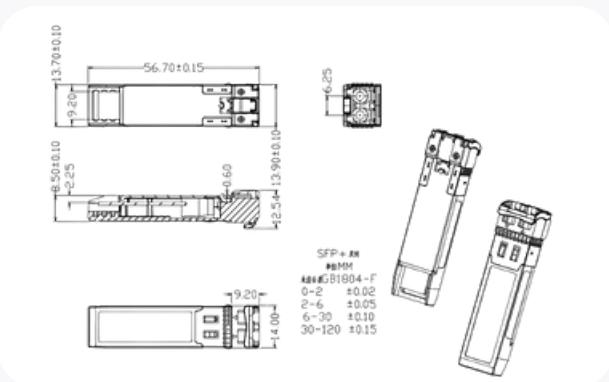
- 802.1X Authentication, Web Portal, and MAC-based access control
- Custom ACLs with L2/L3/L4 packet classification and policy control
- Protection against DoS attacks, ARP spoofing, and MAC flooding
- Port-based and VLAN-based DHCP snooping & IP Source Guard
- Supports BPDU Guard, BPDU Filter, and loop prevention protocols

E822

INTELLIGENT MANAGEMENT

- Intuitive Web-based management (HTTPS)
- SNMP v1/v2/v3 and Syslog for centralized monitoring
- VCT and DDM (Digital Diagnostic Monitoring) for real-time diagnostics
- Supports CLI, Telnet, and SSH for IT administrators
- Unified management of logs and network configuration

MECHANICAL SPECIFICATIONS



ORDERING INFORMATION

Name	SKU	Qty.
Immunity Link Optix- T10G	T10G-SM-LR-LC	1

VERSTILE SOFTWARE

LAYER 2 / 2+ SWITCHING

- Up to 4096 VLANs with IEEE 802.1Q tag-based VLANs
 - QinQ (Basic & Flexible), Voice VLAN, and MAC VLAN for multi-service networks
 - STP / RSTP / MSTP with multi-instance support for loop-free redundancy
 - Link Aggregation (LACP) with up to 8 groups for higher bandwidth and redundancy
 - IGMP Snooping (v1/v2/v3), MLD Snooping, and MVR for efficient multicast traffic management
 - Storm Control to prevent broadcast, multicast, and unicast flooding

IPV6 & L3 CAPABILITIES

- Static Routing for IPv4 / IPv6 networks
 - ARP management for stable network communication
 - Full IPv6 protocol support including HTTP(S), SSH, SNMP, TFTP, Syslog, and DHCPv6
 - Enables future-ready connectivity across hybrid network environments

QUALITY OF SERVICE (QOS)

- 8 queues per port with WRR / WFQ / SP / Hybrid scheduling
 - Prioritization via Port-based, 802.1p, DSCP, and IP TOS parameters
 - Ingress/Egress rate limiting for precise bandwidth management and traffic shaping

GROSS WEIGHT

24 to 30 gm

INDUSTRY WE SERVE

Our optical transceivers are designed for high-performance networking applications across multiple sectors.

Service Providers



Scale with cutting-edge optics and meet increasing bandwidth demands

Enterprise



Enable secured, real-time data and get an edge over your competitors

Data Centers



Future-proof interconnects between center, state and local institutions

Government



Build trusted, pro-active networks for servers, switches and storages

L3 Switching Features

- Static Routing
 - Pv4/Ipv6
- Address Resolution Protocol (ARP)
 - Static ARP

L2 Switching Features

- 8K MAC Address Table
- 10K (10000) Jumbo Frame
- Flow Control
 - 802.3x (Full-duplex)
 - Back-Pressure (Half-duplex)
- Spanning Tree
 - IEEE 802.1D (STP)
 - IEEE 802.1w (RSTP)
 - IEEE 802.1s (MSTP)/16 instances
 - Auto Edge Port - BPDU Filtering - ERPS
- Link Aggregation
 - IEEE 802.3ad LACP
 - Static Trunk
 - Max 8 Group
 - Max 8 Ports/Group
 - Traffic Load Balancing

VLAN

- Surveillance VLAN
 - 16 OUI Mode (Auto/Manual)
- Voice VLAN
 - 16 OUI Mode (Auto/Manual)
- QinQ (IEEE 802.1ad)
 - Basic
- GARP VLAN Registration Protocol (GVRP)
- 4096 Static VLAN
- IEEE 802.1Q Tagged-based
- 8 groups Protocol-based
- 256 MAC-based

Multicast

- Common
 - 256 Multicast Groups
 - Immediate Leave
 - Static/Forbidden Router Port
 - Static/Forbidden Forward Port
 - 128 profiles Filtering
 - Throttling
- IGMP Snooping
 - IGMP v1/v2
 - IGMP v3 Basic (BISS)
 - IGMP v2/v3 Querier
- MLD Snooping
 - MLD v1/v2
- Multicast VLAN Registration (MVR)
 - IPv4

IPv6

- IPv6 Host
 - Auto Configuration
 - Static IPv6 Address and Prefix Length
 - Static IPv6 Default Gateway
 - IPv6 Neighbor Discovery (ND)
 - IPv6 Duplicate Address Detection
 - ICMPv6
- IPv6 Application
 - HTTP/HTTPS
 - TELNET
 - SSH
 - SNMP
 - TFTP
 - Syslog
 - PING
 - DHCPv6

Quality of Service (QoS)

- Trusted QoS
- Queue Scheduling
 - WRR
 - WFQ
 - Strict Priority
 - Hybrid(WRR+SP or WFQ+SP)
- Class of Service - Port-based
 - 802.1p
 - IP TOS Precedence
 - IP DSCP
- Rate Limit
 - Port-based (Ingress/Egress)

Access Control List (ACL)

- ACL Type
 - L2/L3/L4
 - 512 MAC-based
 - 512 IPv4-based
 - 512 IPv6-based
- PoE Function
 - Power
 - Current
 - Voltage
 - PoE Watch Dog
- Access Rules
 - 1024

Management

- CLI
 - 3 sessions Console
 - 3 sessions Telnet (RFC854)
- WebUI
 - HTTPS
- SNMP(v1,v2c,v3)
- File Management
 - Firmware Upgrade/Backup
 - Dual Images
 - Configuration Download/Backup
 - Multiple Configurations
- Upload/Download
 - TFTP (RFC783)
 - HTTP
 - UART
- Time Management
 - Local
 - SNTP
- Port Management
 - Friendly Port Name (Port Description)
 - Error Disabled Recovery
- Line Management
 - Console
 - Telnet (RFC854)
 - SSH v1/v2
- DHCP
 - Client
- DNS
 - Client
- Software Reset Button
- IEEE (802.3az)
- 32 entries / type RMON Management

MIB

- RFC1213 MIBII (System & Interface groups)
- RFC2819 RMON I (1,2,3, & 9 groups)
- RFC1215 Generic Traps
- RFC1493 Bridge
- RFC2674 Bridge MIB Extensions
- RFC2737 Entity
- RFC3635 Ethernet-Like
- RFC2863 Interface Group

Diagnostics

- UDLD
- Mirroring
 - 4 sessions port-based (Many to One)
- Syslog (RFC3164)
 - Local RAM
 - Local Flash
 - 8 Remote Server
- System Diagnostics
 - CPU Utilization
 - Memory Utilization
 - Port Utilization
 - Technical Support Log
- Port Diagnostics
 - Cable Test
 - Fiber Module Status
- Network Diagnostics
 - Ping Test
 - Traceroute

Security

- AAA Authentication /8 TACACS+ /8 RADIUS
- Authentication Manager
 - IEEE 802.1X
 - MAC Auth
 - Web Auth
 - Guest VLAN
 - Port-based
 - Host-based
- Account Manager
 - Local Authentication
 - 8 Multiple User Account
 - Multi-Level Security (Manager/Operator)
 - Password Recovery Procedures
- Management Access
 - Management VLAN
 - 256 Management ACL
- SSL
 - SSLv2
 - SSLv3
 - TLSv1
- WebUI
 - HTTPS
- CLI
 - SSH v1/v2
- Port Security
 - 256 Dynamic Lock
- Storm Control
 - Broadcast
 - Unknown Multicast
 - Unknown Unicast
- Spanning Tree
 - BPDU Guard
- Mirroring
 - 4 sessions port-based (Many to One)
- AAA Authentication
- 8 TACACS+
- 8 RADIUS
- Protected Port (Port Isolation)
- Black Hole MAC
- CPU Defence Engine
- DoS Prevention
- DHCP Snooping (with Option 82)
- Dynamic ARP Inspection
- 256 IP Source Guard
- IP/MAC/Port Binding (IMPB)
- Dynamic VLAN Assignment

Discovery

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)

PRODUCT SPECIFICATIONS

It integrates advanced hardware and software capabilities to deliver seamless connectivity, intelligent management, and reliable network performance.

HARDWARE SPECIFICATIONS

Parameter	Specification
Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3x, 802.3az, 802.3at, 802.3af
Ports	8 x 10/100/1000Mbps RJ45 ports, 2 x 1000Mbps SFP fiber ports, 1x Console port
Power Supply	AC100~240V 50/60Hz
Dimensions	271*181.5*44.5 mm
PoE Power	130W
Indicators	Electrical port indicator, optical port indicator, power input indicator, system running indicator
Network Media (Cable)	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) 1000Base-T: UTP category 5e, 6 cable (maximum 100m) 1000Base-X: MMF, SMF
PoE Pin Definition	1/2(+), 3/6(-)
Transfer Method	Store-and-Forward
MAC Address Table	8K
Switching Capacity	20Gbps
Packet Buffer	4.1Mbit
Jumbo Frame	10KBytes
Packet Forwarding Rate	14.88Mpps
Environment	Operating Temperature: 0C ~45C (0F ~113F) Storage Temperature: -40C ~70C (-40F ~158F) Operating Humidity: 10% ~90% non-condensing Storage Humidity: 5% ~95% non-condensing
Total Power	150W

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	<ul style="list-style-type: none"> - IEEE 802.1s (MSTP)/16 instances - Auto Edge Port - BPDU Filtering - ERPS Link Aggregation - IEEE 802.3ad LACP - Static Trunk - Max 8 Group - Max 8 Ports/Group - Traffic Load Balancing
VLAN	<ul style="list-style-type: none"> Surveillance VLAN - 16 OUI Mode (Auto/Manual) Voice VLAN - 16 OUI Mode (Auto/Manual) QinQ (IEEE 802.1ad) - Basic GARP VLAN Registration Protocol (GVRP) 4096 Static VLAN IEEE 802.1Q Tagged-based 8 groups Protocol-based 256 MAC-based
Multicast	<ul style="list-style-type: none"> Common - 256 Multicast Groups - Immediate Leave - Static/Forbidden Router Port - Static/Forbidden Forward Port - 128 profiles Filtering - Throttling IGMP Snooping - IGMP v1/v2 - IGMP v3 Basic (BISS) - IGMP v2/v3 Querier MLD Snooping - MLD v1/v2 Multicast VLAN Registration (MVR) - IPv4
Quality of Service (QoS)	<ul style="list-style-type: none"> Trusted QoS Queue Scheduling - WRR - WFQ - Strict Priority - Hybrid(WRR+SP or WFQ+SP) Class of Service - Port-based - 802.1p - IP TOS Precedence - IP DSCP Rate Limit - Port-based (Ingress/Egress)
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Management	CLI - 3 sessions Console - 3 sessions Telnet (RFC854) WebUI - HTTPS SNMP(v1,v2c,v3) File Management - Firmware Upgrade/Backup - Dual Images - Configuration Download/Backup - Multiple Configurations Upload/Download - TFTP (RFC783) - HTTP - UART Time Management - Local - SNTP Port Management - Friendly Port Name (Port Description) - Error Disabled Recovery Line Management - Console - Telnet (RFC854) - SSH v1/v2 DHCP - Client DNS - Client Software Reset Button IEEE (802.3az) 32 entries / type RMON Management
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