

ET2422MPp-S

L2+ Managed 24-port 10/100/1000Base-TX (PoE+) + 2-port 10/100/1000Base-TX or 100/1000Base-FX SFP Combo Ethernet Switch



Features

- ▶ L2+ Managed features provide easier manageability, robust security and QoS
- ▶ 24 10/100/1000Base-TX PoE+ ports + 2 10/100/1000Base-TX or 100/1000Base-FX SFP combo ports
- ▶ STP/RSTP/MSTP
- ▶ IGMP v1, v2, v3 Snooping
- ▶ IEEE 802.3af 15.4W / IEEE 802.3at 30W High Power PoE
- ▶ Total 370W PoE power budget
- ▶ IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet
- ▶ 9K Jumbo frames
- ▶ CLI/Web/SNMP (v1, v2c, v3) management interfaces
- ▶ PoE Port configuration and scheduling
- ▶ Embedded Surveillance Device Management (Option by request)
- ▶ 19" 1U Rack-mount

Warranty

- ▶ 5-Year Warranty

Specifications

Ethernet

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| Standards | IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3u 100Base-FX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X |
| Processing Type | Store-and-Forward |
| Switch Fabric | 52 Gbps |
| Forward Filter Rate | 14,880pps (10Mbps) 148,800pps (100Mbps) 1,488,000pps (1000Mbps) |
| Maximum Packet Length | 9K Bytes |
| Address Table Size | 8K MAC Address |
| Connector | 26 x RJ45 |
| Optical Port | 2 x SFP 100/1000Base-FX |
| Console port | 1 x RJ45 |

Electrical and Mechanical

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|-------------------------------|----------------------------------|
| Input Power | 100~240VAC, 50~60Hz |
| Total PoE output power budget | Max. 370W |
| Power Consumption | Max. 40W without PD loading |
| Max. Power Consumption | 460W |
| LED Indicators | |
| Power | Power Status |
| Ethernet (Per Port) | Link/Activity |
| PoE status | Indication of PoE Power applying |
| Dimensions (W x D x H) | 442 x 211 x 44 mm |
| Weight | 3.3 Kg |
| Casing | Metal Case |
| Mounting Options | Rack Mount |

Software Features

Layer 2 Switching

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|------------------------|---|
| Spanning Tree Protocol | IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP |
| Trunking | Link Aggregation Control Protocol (LACP) IEEE802.3ad - Up to 13 groups |

Specifications

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| | - Up to 4 ports per group |
| VLAN | Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs) - Port-based VLAN, 802.1Q tag-based VLAN, MAC-base VLAN, Management VLAN, Private VLAN Edge(PVE), Q-in-Q (double tag) VLAN, Voice VAN, GARP VLAN Registration Protocol |
| DHCP Relay | - Relay of DHCP traffic to DHCP server in different VLAN. - Works with DHCP Option 82 |
| IGMP v1/v2/v3 Snooping | IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 1024 multicast groups |
| IGMP Querier | IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router |
| IGMP Proxy | IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router |
| MLD v1/v2 Snooping | Delivers IPv6 multicast packets only to the required receivers |
| Layer 3 Switching | |
| IPv4 Static Routing | IPv4 Unicast: Static routing |
| IPv6 Static Routing | IPv6 Unicast: Static routing |
| Security | |
| Secure Shell (SSH) | SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported |
| Secure Sockets Layer (SSL) | SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch |
| IEEE 802.1X | - IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions - Supports IGMP-RADIUS based 802.1X - Dynamic VLAN assignment |
| Layer 2 Isolation Private VLAN Edge | PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks |
| Port Security | Locks MAC addresses to ports, and limits the number of learned MAC address |
| IP Source Guard | Prevents illegal IP address from accessing to specific port in the switch |
| RADIUS/ TACACS+ | Supports RADIUS and TACACS+ authentication. Switch as a client |
| Storm Control | Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port |
| DHCP Snooping | A feature acts as a firewall between untrusted hosts and trusted DHCP servers |
| ACLs | Supports up to 256 entries. Drop or rate limitation based on: - Source and destination MAC, VLAN ID or IP address, protocol, port, - Differentiated services code point (DSCP) / IP precedence - TCP/ UDP source and destination ports - 802.1p priority - Ethernet type - Internet Control Message Protocol (ICMP) packets - TCP flag |
| Quality of Service | |
| Hardware Queue | Supports 8 hardware queues |
| Scheduling | - Strict priority and weighted round-robin (WRR) - Queue assignment based on DSCP and class of service |
| Classification | - Port based - 802.1p VLAN priority based - IPv4/IPv6 precedence / DSCP based - Differentiated Services (DiffServ) - Classification and re-marking ACLs |
| Rate Limiting | - Ingress policer - Egress shaping and rate control - Per port |
| Management | |
| DHCP Server | Support DHCP server to assign IP to DHCP clients |
| Remote Monitoring (RMON) | Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis |
| Port Mirroring | Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported |
| UPnP | The Universal Plug and Play Forum, an industry group of companies working to enable |

Specifications

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| s-Flow | device-to-device interoperability by promoting Universal Plug and Play The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats |
| IEEE 802.1ab (LLDP) | - Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network - Support LLDP-MED extensions |
| Web GUI Interface | Built-in switch configuration utility for browser-based device configuration |
| CLI | For users to configure/manage switches in command line modes |
| Dual Image | Independent primary and secondary images for backup while upgrading |
| SNMP | SNMP version 1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM) |
| Firmware Upgrade | - Web browser upgrade (HTTP/ HTTPS) and TFTP - Upgrade through console port as well |
| NTP | Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched |
| Other Management | - HTTP/HTTPS; SSH - DHCP Client/ DHCPv6 Client - Cable Diagnostics - Ping - Syslog - Telnet Client - IPv6 Management |

Power over Ethernet (PoE)

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| Port Configuration | Supports per port PoE configuration function |
| PoE Scheduling | Supports per port PoE scheduling to turn on/off the PoE devices (PDs) |
| Auto-checking | Check the link status of PDs. Reboot PDs if there is no responses |
| Power Delay | The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs |

Environmental

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| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Storage Temperature | -20°C to 70°C (-4°F to 158°F) |
| Relative Humidity | 10% to 90% non-condensing |
| MTBF | > 100,000 hrs |

Regulatory Approvals

Certification compliance: CE, FCC Part 15 Class A

Ordering Information

| Available Model | Description |
|-----------------|--|
| ET24222MPp-S | L2+ Managed 24-port 10/100/1000Base-TX (PoE+) + 2-port 10/100/1000Base-TX or 100/1000Base-FX SFP Combo Ethernet Switch |

Optional Accessories (to be purchased separately)

SFP (S) = SFP Option. Please select your SFP on our SFP Modules page at the back of the catalogue or our website www.ot-systems.com for details.

Package Checklist

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|------------------------|-----|
| ■ Managed Switch | x 1 |
| ■ Adhesive Rubber Feet | x 4 |
| ■ Mounting Accessory | x 1 |
| ■ AC Power Cord | x 1 |
| ■ RJ-45 Console Cable | x 1 |



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Due to continuous improvement, all product specifications are subject to change without further notice.