

Temperature Hardened Layer 3 Managed Ethernet Switch

ETHERPATH ESS3228-XTD is a Layer 3 Ethernet Routing switch developed with the performance and features required to address harsh outdoor temperature environments from -40°C to +75°C. The F100-XTD is available with AC power or -48VDC dual power inputs.

ETHERPATH ESS3228-XTD is a full featured L3+ routing switch with 24 Fast Ethernet ports and 4 Gigabit ports. There are two gigabit SFP ports and two slots for user installable plug-in cards. 1000Base T, 100Base FX and SFP plug-in cards are available.

Features

- Twenty four (24) auto-MDIX 10/100 ports
- Gigabit interfaces options are: choice of gigabit interface cards (up to 2), plus 2 built-in SFP ports.
- 12.8Gbps switching fabric
- Layer 2 features including:
 - Learning, forwarding and aging
 - STP and Rapid STP
 - MAC Filtering
 - MAC Port security
 - Port based and Protocol based VLAN, VLAN tagging, Dynamic VLAN, GVRP
 - Q-in-Q (double tagging)
 - Priority Queuing
 - Flow Control
 - Link Aggregation (8 Groups/8 Ports Each)
 - Port mirroring
 - Broadcast storm recovery
 - Head of Line Blocking Prevention
 - GMRP, IGMP Snooping
 - 802.1x Access Control (PEAP, CHAP)

ETHERPATH ESS3228-XTD Series



- Layer 3 features including
 - IPv4 Routing
 - ARP, ARP proxy*, and RARP*
 - Multi-port Subnet-VLAN Routing
 - Static IP Routes
 - Multi-subnet Broadcast
 - CIDR, VLSM, Route Summarization
 - RIP1, RIP2
 - OSPFv2
 - BGP (Optional Software Feature)
 - Route re-distribution between RIP, OSPF, local, and static
 - IP Multicast (IGMPv2, DVMRP, PIM-DM, and PIM-SM) (Optional Software Feature)
 - VRRP
 - Router Discovery
 - Secondary IP Address Capability
 - Class of Services
- Layer 3+ and Additional Features
 - BOOTP/DHCP Relay
 - Bandwidth Allocation
 - Packet Filtering and Access Control List (ACL)
 - Network Address Translation (NAT)
 - Protection against Denial of Service (DOS)
- OAMP Features
 - BOOTP/DHCP
 - Software and Configuration Updates using TFTP, XMODEM
 - POST and Diagnostics
 - Syslog
 - User Interface (CLI, Telnet, WBI)
 - SSH and SSL*
 - RADIUS Based Authentication*
 - SNMPv1/v2c/v3, RMON

ETHERPATH ESS3228-XTD Temperature Hardened Series Specifications

<p>Ports</p> <ul style="list-style-type: none"> • 24 Auto MDIX 10/100 Base-TX • Gigabit interfaces options are: choice of gigabit interface cards (up to 2), plus 2 built-in SFP ports <p>Capacity</p> <ul style="list-style-type: none"> • 12.8 Gbps switch fabric • 9.5 Million PPS Packet Forwarding Rate • 8 Priority Queues • Up to 39K MAC addresses with 3 CAMs • Up to 38K IP Route with 3 CAMs • Up to 19K ARP Table with 3 CAMs • Up to 2K Multicast Route with 3 CAMs • Up to 2560 VLAN with 3 CAMs • Up to 512M Byte packet buffer • 100 ACL Lists <p>IEEE Standards</p> <ul style="list-style-type: none"> • IEEE 802.1D Bridging, Spanning Tree, GARP, GMRP • IEEE 802.1Q VLAN Tagging • IEEE 802.3ac Frame Extension for VLAN Tagging • IEEE 802.1p Priority Queuing • IEEE 802.1w Rapid Spanning Tree* • IEEE 802.1x Access Control • IEEE 802.3x Flow Control • IEEE 802.3ad Link Aggregation <p>IETF RFC MIBs</p> <ul style="list-style-type: none"> • RFC 1213 – MIB II • RFC 1493 – Definitions of Managed Objects for Bridges • RFC 1573 – Evolution of the Interfaces Group of MIB-II • RFC 1643 – Ethernet MIB • RFC 1724 – RIP Version 2 MIB Extensions • RFC 1850 – OSPF Version 2 Management Information Base • RFC 2233 – The Interfaces Group MIB using SMIv2 • RFC 2674 – Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions (partially supported) • RFC 2787 – VRRP MIB • RFC 1757 RMON MIB • CyberPath Private MIB 	<p>Management Features</p> <ul style="list-style-type: none"> • CLI, WEB and SNMPv1, SNMPv2 and SNMPv3 • Dedicated serial and 10/100Base-T management port • In-Band Management • RMON Groups 1,2,3 and 9 (Statistics, History, Alarm and Events) • On-line diagnostics • Firmware Upgrade using TFTP, X modem • Database backup and restoration • Local language support <p>LEDs</p> <ul style="list-style-type: none"> • System Power • Self test • Fault • Link status (per port) • Activity (per port) <p>AC Input</p> <ul style="list-style-type: none"> • AC Input 100V to 240V, 50 to 60Hz <p>DC Input</p> <ul style="list-style-type: none"> • -48VDC dual inputs <p>Power Supply</p> <ul style="list-style-type: none"> • Internal auto-ranging power supply • Redundant power supply (Optional) <p>Power Consumption</p> <ul style="list-style-type: none"> • 73W max. <p>Heat Dissipation</p> <ul style="list-style-type: none"> • 250 BTU/hr. <p>Size</p> <ul style="list-style-type: none"> • 444mm x 355mm x 66mm • (17.47inx13.97inx2.5in) <p>Weight</p> <ul style="list-style-type: none"> • 6.5 kg • 14.3 lbs <p>Operational Environment</p> <ul style="list-style-type: none"> • Temperature -40 °C to 75 °C • Humidity 10% to 90% non-condensing • Storage temperature -45 °C to 85 °C <p>Compliance</p> <ul style="list-style-type: none"> • FCC Part 15 • CE mark • UL 	<p>Ordering Information:</p> <p>E00-10101-00: ESS 3228 With 0 CAM E00-10102-00: ESS 3228-1 With 1 CAM E00-10103-00: ESS 3228-3 With 3 CAM E00-10101-50: ESS 3228 –AMI With 0 CAM E00-10102-50: ESS 3228-1 –AMI With 1 CAM E00-10103-50: ESS 3228-3 –AMI With 3 CAM</p> <p>Uplink Interface Cards</p> <p>E10-80100-00: 1-port 1000 Base-TX E10-80110-03: 1-port 100 Base-FX SC MMF E10-80250-20: 1-port SFP card</p> <p>SFP Transceiver Modules</p> <p>E20-70251-01: 1000 Base SX, LC, SFP module E20-70282-01: 1000 Base LX 10Km, LC, SFP module E20-70283-01: 1000 Base LX 20Km, LC, SFP module</p> <p>Software Options</p> <p>E50-10100-00: -AMI BGP Routing, Multicasting Services Option</p> <p>Misc. Parts</p> <p>E90-10100-00: Rack Mount Kit E90-10200-00: Redundant Power Module E90-10301-00: 64M Byte Packet Buffer Module E90-10302-00: 256M Byte Packet Buffer Module E90-10303-00: 512M Byte Packet Buffer Module</p>
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* Available in future releases

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