

Layer 3 Managed Gigabit Ethernet Routing Switch

ETHERPATH ESS3316 is the next generation 16 gigabit port layer 2/layer 3 switch developed with the performance, flexibility, manageability and unparalleled features required to address the Enterprise LAN and WAN applications expected in tomorrows networks.

The **ETHERPATH ESS3316** offers 16 Gigabit Ethernet ports. Two configurations are available – 4 Combo ports with either 12 port 1000Base T or 12 port SFP. Support for SFP plug-in module allows users to choose between MultiMode or SingleMode Fiber ports.

The **ETHERPATH ESS3316** is available with additional Content Addressable Memory (CAM) and packet buffer to support very large MAC forwarding and IP routing tables.

Features

- 32 Gbps switching fabric
- Layer 2 features including:
 - Learning, forwarding and aging
 - STP, Rapid STP* and Multiple STP*
 - MAC Filtering
 - MAC Port Security
 - Port based and protocol based VLAN, VLAN tagging, and GVRP
 - Priority Queuing supports VOIP traffic
 - Flow Control
 - Link Aggregation (8 Groups/8 ports Each)
 - Uni-directional and Bi-directional Port mirroring
 - Broadcast storm recovery
 - Head of Line Blocking Prevention
 - GMRP, IGMP Snooping
 - 802.1x Access Control

ETHERPATH ESS3316 Series



- Layer 3 features including
 - IPv4 Routing
 - IPv6 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 Features)
 - Route Re-distribution between RIP, OSPF, local, and static
 - IP Multicast (IGMPv2, DVMRP, PIM-DM, PIM-SM) (Optional Software Features)
 - VRRP
 - Router Discovery Protocol
 - 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 Services (DOS)
- OAMP Features
 - BOOTP, DHCP
 - Software and Configuration Updating Using TFTP, XMODEM
 - POST and Diagnostics
 - Syslog
 - User Interface (CLI, Telnet, WBI)
 - SSH and SSL*
 - RADIUS Based Authentication*
 - SNMP

ETHERPATH ESS3316 Series Specifications

<p>Ports</p> <ul style="list-style-type: none"> • 4 Combo ports + 12 1000Base T ports or • 4 Combo Ports + 12 SFP ports <p>Capacity</p> <ul style="list-style-type: none"> • 32 Gbps switch fabric • 23.8 Million PPS Packet Forwarding Rate • 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 • 48 ACL Lists <p>IEEE Standards</p> <ul style="list-style-type: none"> • IEEE 802.1D MAC Bridging, Spanning Tree, GARP, GMRP • IEEE 802.1Q VLAN Tagging • IEEE 802.1p Priority Queuing • IEEE 802.1s Multiple Spanning Trees • IEEE 802.1w Rapid Spanning Tree* • IEEE 802.1x Access Control • IEEE 802.3ac Frame Extension for VLAN Tagging • IEEE 802.3ad Link Aggregation • IEEE 802.3x Flow Control <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 (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) • Speed (per port) <p>AC Input</p> <ul style="list-style-type: none"> • 100 V to 240 V • 50 to 60Hz <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 • (17.47in x 13.97 in x 2.5 in) <p>Weight</p> <ul style="list-style-type: none"> • 6.0 kg • 13.2 lbs <p>Operational Environment</p> <ul style="list-style-type: none"> • Temperature 0 °C to 40 °C • Humidity 10% to 90% • Storage -40 °C to 70 °C <p>Compliance</p> <ul style="list-style-type: none"> • FCC Part 15 • CE mark • UL 	<p>Ordering Information:</p> <p>E00-11101-00: ESS 3316T 4 combo port + 12 TX port E00-11101-10: ESS 3316S 4 combo port + 12 SFP port E00-11102-00: ESS 3316T-1 4 combo port + 12 TX port with 1 CAM E00-11102-10: ESS 3316S-1 4 combo port + 12 SFP port with 1 CAM E00-11103-00: ESS 3316T-3 4 combo port + 12 TX port with 3 CAMs E00-11103-10: ESS 3316S-3 4 combo port + 12 SFP port with 3 CAMs</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</p> <p>Software Options</p> <p>E50-11100-00: -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