

Ethernet Smart Switch

ESSential F-10 is a Layer 2 Ethernet switch with performance and features that are required to support Enterprise LAN based applications.

The *ESSential F-10* offers 24 10/100 Mbps Ethernet ports plus 2 uplink Ethernet ports. The uplink Ethernet ports are available in standard 100 Base-FX, 1000 Base-T, as well as SX (multi-mode), LX (single mode) and GBIC/SFP plug-in modules.

The *ESSential F-10* basic platform supports commonly used Layer 2 features such as VLAN, STP, Link aggregation and Layer 2+ features such as bandwidth control. It can support 6K MAC addresses and 4K VLANs.

Features

- Up to twenty four (24) auto-MDIX 10/100 ports.
- Two independently configurable hot swappable uplink Ethernet ports
- Choice of 100 Base FX, 1000 Base-T, 1000 Base-SX, 1000 Base-LX and GBIC/SFP uplink Ethernet port
- 8.8 Gbps switching capacity
- Power over Ethernet (Future)
- Layer 2 switch features including:
 - MAC learning, aging and forwarding

ESSential F-10 (ESS-2226)



- Layer 2 features (contd)
 - MAC filtering
 - STP, fast STP and multiple STP*, MAC Filtering*
 - Port based network access control (802.1x)
 - Port based and Protocol based VLAN, VLAN tagging, GVRP
 - Independent and Shared VLAN
 - Priority Queuing
 - IGMP snooping
 - Flow control
 - Broadcast storm control
- Uni-directional and Bi-directional Port mirroring
- Layer 2+ and Additional Features
 - Head of Line Blocking Prevention
 - Bandwidth Allocation on a per port basis
 - Port Security and Access control
 - Clustering feature*
- OAMP Features
 - BOOTP/DHCP
 - Software and configuration updates using TFTP, XMODEM
 - POST and diagnostics
 - User Interface (CLI, Telnet, WBI)
 - RADIUS (to support port security feature)
 - SNMP, RMON

* Will be available in Q2, 2004

ESSential F-10 (ESS-2226) Specifications

<p>Ports</p> <ul style="list-style-type: none">• Up to 24 Auto MDIX 10/100 Base-TX.• Up to two independently hot swappable uplink Ethernet ports:• Choice of following uplink Ethernet ports:<ul style="list-style-type: none">○ 100 Base FX○ 1000 Base-T○ 1000 Base-SX○ 1000 Base-LX○ GBIC/SFP Module <p>Capacity</p> <ul style="list-style-type: none">• 8.8 Gbps switch fabric• 6K MAC addresses• 4K VLANS <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 802.3x Flow Control• IEEE 802.3ad Link Aggregation• IEEE 802.1s Multiple Spanning Trees*• IEEE 802.1w Rapid Spanning Tree*• IEEE 802.1x Port based Network Access Control• IEEE 802.3af Power over Ethernet* <p>IETF RFC</p> <ul style="list-style-type: none">• RFC 768,783,791,792,793, 826, 854, 855, 894, 922, 951, 1155, 1157, 1212, 1867, 1901*, 1905*, 1906*, 1907*, 1908*, 1945, 1994, 2068, 2069, 2104, 2131, 2138, 2139, 2284, 2295, 2236, 2570*, 2571*, 2572*, 2573*, 2574*, 2575*, 2576*, 2578*, 2579*, 2580*, 2865, 2869 <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 2233 – The Interfaces Group MIB using SMIPv2*• RFC 2674 – Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions*• 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 management port• In-Band Management• RMON Groups 2,3 and 9 (History, Alarm and Events)• On-line diagnostics• Backdoor Interface for troubleshooting• Firmware Upgrade using TFTP, X modem• Database backup and restoration• Local language support*• User authentication using RADIUS protocol <p>LEDs</p> <ul style="list-style-type: none">• System Power• Broadcast Storm Alert• Fault• Link status• Activity <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 module <p>Power Consumption</p> <ul style="list-style-type: none">• 35W max. <p>Heat Dissipation</p> <ul style="list-style-type: none">• 119.5 BTU/hr. <p>Size</p> <ul style="list-style-type: none">• 444 mm X 195 mm x 44 mm• (17.48 in x 7.68 in x 1.73 in) <p>Weight</p> <ul style="list-style-type: none">• 2.7 kg• 6.0 lbs <p>Operational Environment</p> <ul style="list-style-type: none">• Temperature 0 °C to 40 °C• Humidity 10% to 90% non-condensing• Storage -40 °C to 70 °C <p>Compliance</p> <ul style="list-style-type: none">• FCC Part 15• CE mark• UL	<p>Models</p> <ul style="list-style-type: none">• ESS-F10 Basic model <p>Uplink Ethernet Modules</p> <ul style="list-style-type: none">• 1-port 100 Base-FX card with SC connector• 1-port 1000 Base-T card• 1-port Gig-E SX Module MM, LC connector• 1-port Gig-E SX Module MM, MT-RJ connector• 1-port Gig-E LX Module SM, LC connector• 1-port Gig-E LX Module SM, MT-RJ connector• 1-port GBIC/SFP <p>Ordering Information:</p> <p>E00-01120-00: ESS F10 basic Platform</p> <p>ESS-F10 Uplink Interface Modules</p> <p>E10-80100-00: 1-port 1000 Base-TX</p> <p>E10-80110-03: 1-port 100 Base-FX SC MMF</p> <p>E10-80111-03: 1-port 100 Base-FX, SC SMF 15 km</p> <p>E10-80200-01: 1-port 1000 Base-SX, LC MMF</p> <p>E10-80200-02: 1-port 1000 Base-SX, MTRJ MMF</p> <p>E10-80230-01: 1-port 1000 Base-LX, LC SMF 2km</p> <p>E10-80230-02: 1-port 1000 Base-LX, MTRJ SMF 2km</p> <p>E10-80231-01: 1-port 1000 Base-LX, LC SMF 10 km</p> <p>E10-80232-01: 1-port 1000 Base-LX, LC SMF 20 km</p> <p>E10-80250-20: 1-port SFP module</p> <p>E10-80300-30: 1-port GBIC module</p> <p>*Will be available in Q2 2004</p>
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