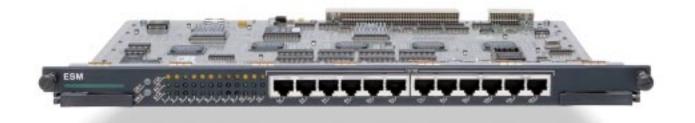# ESM-100C-12—10/100 Ethernet Switching Module

Delivering Cost-effective, Powerful 10/100 Ethernet Switching

Xylan's ESM-100C-12 module offers OmniSwitch users high-powered, auto-sensing 10/100 switched Ethernet at a price per port equal to most vendor's 10BaseT solutions. Most organizations currently using 10BaseT solutions will use fast Ethernet for their bandwidth demanding applications. The ESM-100C-12 allows organizations to use their existing Ethernet now and integrate fast Ethernet port-by-port as their applications demand more bandwidth—all from the same switch and all from the same switching module.

10/100 Ethernet Features

*10/100 Auto Negotiation—*By supporting 10 Mbps and 100 Mbps Ethernet, ESM-100C-12 users are assured of a simple migration from 10 Mbps Ethernet to 100 Mbps Ethernet. When their bandwidth needs change, they will not have to make additional switching investments.

*2 Gbps Internal Switching—*Each ESM-100C-12 is equipped with Xylan's powerful new ASICs, Mammoth and Whistler, to provide a 2 Gbps high-speed switching fabric. This powerful architecture supports high-density 10/100 Ethernet switching on all 12 ports.

*Powerful VLANs—*The ESM-100C-12 supports VLANs based on physical port, MAC address, layer three address, protocol type, multicast address, custom bit mask and/or a combination of these VLAN types . These powerful VLAN types reduce the network administration costs associated with network moves, adds and changes because users are automatically placed into VLANs based on the policies defined by the administrator.

*Traffic Management—*Each port provides large packet buffers (512 KB) and two priority levels to limit data loss even during heavy bursty traffic loads.

Xylan's high-performance 10/100 switching module offers the powerful switching capacity required for today's backbones and tomorrow's desktops.

Specifications

Model Number

ESM-100C-12:   10/100 Ethernet 12-port switching module

Technical Specifications

Public standard: IEEE 802.3; IAB RFC 826; IAB RFC 894

Data rate: 10 Mbps and 100 Mbps (half and full duplex)

Maximum frame size: 1,518 bytes

MAC addresses
per module: 1,024 or 2,048 with CAM upgrade

Connectors and
port count: 12 RJ45s

Connects to: Half duplex mode—10/100BaseT device or hub
Full duplex mode—10/100BaseT device

Cable types: 100BaseTx - unshielded twisted pair
(Category 5) EIA/TIA 568
10BaseT - unshielded twisted pair (100
ohms)shielded twisted pair (100 ohms)

Module LED
indicators: Physical Status; Operational Status

Link Status Port
LED indicators: Link Status; Activity; Collisions,10/100 mode
and full duplex mode

Dynamic buffer space: 3 MBytes per port

Vlan Support

Port based

MAC based

Layer three address

Protocol type

Multicast address

User defined bit mask

Throughput

10 Mbps mode - 14,880

100 Mbps mode - 148,800

Certification

UL 1950

CSA-C22.2

EN 60950

FCC Class A (Part 15)

EN 55022 Class B on shielded UTP

VCCI Class 2 on shielded UTP

CE Mark

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