- **User Personalized Networking features**
  — Traffic regulation to and from servers and desktop users at the network edge
  — Traffic shaping with per-port bandwidth provisioning and queue management, enabling service level agreements (SLAs)
  — Guaranteed delivery of critical applications such as Voice over IP and multicast video
  — Advanced security filtering based on Layer 2-4 information
  — Support of NetSight™ Atlas Policy Manager to easily implement User Personalized Networking features

- **Low cost of ownership**
  — Advanced Layer 2-4 traffic control without expensive, complex routing solutions
  — True investment protection: fully compatible with both the Matrix E6 and Matrix E7

- **High-density, scalable, Gigabit Ethernet switching for data centers and high-performance wiring closets**
  — 6 1000Base-T RJ45 ports
  — Up to 42 1000Base-T ports in the Matrix E7; up to 30 1000Base-T ports in the Matrix E6
  — Wire-speed Layer 2-4 services

- **High-availability features based on industry standards**
  — Link Aggregation (IEEE 802.3ad)
  — Frame-based Flow Control (IEEE 802.3x)
  — Rapid Reconfiguration Spanning Tree (IEEE 802.1w)

- **Intuitive, industry-standard management for rapid deployment and troubleshooting**
  — SMON and full RMON 1
  — 802.1Q IETF MIB (RFC 2674)
  — Support for NetSight Atlas for system-level configuration, maintenance and troubleshooting and NetSight Element Manager for device management

Quality of Service, Security and Control for the Matrix E6 and E7

The Matrix 6G302-06 module delivers superior functionality and the bandwidth needed to support even the largest networks.

High-Density Gigabit Ethernet Switching for the Wiring Closet and Backbone

Designed to provide connectivity to high-speed servers and power users, as well as for Gigabit Ethernet workgroup aggregation, the 6-port Matrix 6G302-06 high-density switching module for the Matrix E6 and E7 delivers pinpoint control to critical network entry areas, without the expense and complexity of routed solutions. The Matrix 6G302-06 also offers the throughput and port density needed to eliminate bandwidth concerns and serve in the largest networks.

Using embedded Layer 2-4 services and NetSight Atlas Policy Manager, the Matrix 6G302-06 brings comprehensive Quality of Service, security and traffic containment to desktops and servers at the network edge, automatically. Network managers can now guarantee delivery of high-priority applications, enable service level agreements (SLAs) by provisioning bandwidth, and prevent security breaches by stopping them at their sources.

With comprehensive security features, including IP Access Control Lists, Radius Authentication, security passwords and SNMP management VLANs, the Matrix 6G302-06 is protected from intruder attacks. The module also delivers user-based security and authentication via port-based MAC address locking and support for the IEEE 802.1X authentication standard.

The Matrix 6G302-06 provides a broad, yet standards-based, feature set. Unlike many competitive switching solutions, advanced multilayer switching services, 9 groups of RMON, and feature-rich configuration/classification capabilities are available at no additional charge.

ENTERASYS NETWORKS™

TECHNICAL SPECIFICATIONS

Main Memory
20 MB

Buffer Memory
4 MB

FLASH Memory
8 MB

Address Table Size
16,000 entries

Module Performance
3,600,000 pps (measured in 64 byte packets)

Switching Bandwidth Capacity
6.6 Gbps

Management Options
In-band management via SNMP using NetSight Element Manager or NetSight Atlas

Out-of-band management via RS232 COM Port, Telnet

Embedded WebView, web-based management

System CPU LED Indicators
Red-blinking—Hardware failure has occurred
Red-solid—Resetting, normal power up reset
Amber-blinking—Crippled
Amber-solid—Testing
Green-solid—Functional
Amber/Green—Booting

Module MTBF
Predicted >200,000 hrs

Standards Support
IEEE 802.1Q, 802.1D, 802.1p, 802.3u, 802.3x, 802.3
Gigabit Ethernet over Copper: IEEE 802.3ab
IEEE 802.3ad, 802.1X, 802.1w

PHYSICAL SPECIFICATIONS

Interfaces
6 fixed 1000Base-T ports via RJ45 connectors

Dimensions
46.43 cm (18.28") H x 6.05 cm (2.38") W x 29.51 cm (11.62") D

Weight
2.4 kg (4.5 lbs)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature
0º C to +50º C (32º F to 122º F)

Non-Operating Temperature
-30º C to +73º C (-22º F to 163º F)

Operating Humidity
5%-95% RH, non-condensing

Power Consumption

Voltage Range
100-125 VAC or 200-250 VAC
50-60 Hz, 94ACVA

Thermal
315 BTU/hr

AGENCY AND STANDARDS SPECIFICATIONS

Safety
UL1950
CSA C22.2 No. 950
EN60950
IEC950
73/23/EEC

Electromagnetic Compatibility
FCC Part 15
CSA C108.8
EN55022
VCCI V-3
EN50082-1
89/336/EEC

ORDERING INFORMATION

6G302-06
6-port RJ45 1000Base-T Ethernet switch for the Matrix E6 and E7

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