



MGE168FS

L2/L3 Managed Ethernet Switch with 16 x FE and 8 x E1 media converters with Encryption

Access Systems

- Compliant with IEEE802.3, IEEE802.3u standards
- Up to 16 10/100 Mbit/s Auto-Negotiation RJ45 ports supporting Auto-MDI/MDX
- Up to 8x E1 2048 kbit/s ITU-T G.703 ports with EoE1 media converters, HDCL encapsulation
- Port-Based VLAN and IEEE 802.1Q tag VLAN
- Per E1 port configurable AES128/192/256 encryption module with flexible key and access management
- Static MAC address and filtering MAC address management
- Static Port Priority and IEEE 802.1p Class of Service (CoS) with 4-level priority queuing
- Firmware upgrade, gold configuration backed up and restored
- Rack/Desktop - mountable case options
- Management through Embedded Web Server (EWS) which can be accessed via WEB browser
- GARP VLAN Registration Protocol (GVRP)
- Storm control, broadcast and multicast flooding
- Per port ingress and egress rate control
- STP, RSTP, MSTP
- Trunking, Link Aggregation Group (LAG)
- Test facilities, Virtual cable tester and PRBS BIST
- Internal power supply, -48 Vdc or 220 Vac option



Power LED 16 x Fast Ethernet IP reset E1 LED 8 x E1

IRITEL
bright connections

TELECOMMUNICATIONS AND ELECTRONICS

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Description

IRITEL MGE168FS high performance Managed Ethernet Switching device besides of the true Ethernet access offers versatile combination of user interfaces integrated together with media converters with encryption, thus reducing the need for external media converters.

Encryption Standard (AES) provides high confidence level of data security over public telecommunication network. Each E1 link at the device is possible to configure to perform data encryption with different key length, key management and key schedule. Encryption procedure includes key exchange, authentication and user data encryption. Each phase of encryption procedure uses their own key.

Application

MGE168FS provides edge connectivity utilizing existing E1 and copper infrastructure, applicable in midsized and large scaled campus, corporate and metro access networks. MGE168FS is especially tailored to provide connectivity and LAN extensions between numerous remote sites with encryption.

Management

Management can be performed through an embedded Web Server (EWS) by using standard internet browser. The well known WEB interfaces significantly reduce learning time and minimize the cost of deployment.

For the Centralized Network Management we offer embedded SNMPv1//2/3 agent.

TECHNICAL DATA

Performance

Wire speed switching on all Ethernet and E1 ports

Store and forward mode

Non blocking switch fabric

Port speed:

10/100-TX RJ-45

E1 2048 kbit/s RJ-45

Internal power supply

Interface Standards

802.3 10Base-T & 10Base-FL

802.3u 100Base-TX

E1 ITU-T G.703, HDLC encapsulation

General Standards

802.1d Bridging

802.3x Backpressure/ Flow Control

AES: NIST FIPS197

Redundancy Standards

802.1D Spanning Tree Protocol

802.1W Rapid Spanning Tree

802.1s Multiple Spanning Tree

Link Aggregation, Static port trunk

VLANs

IEEE 802.1Q VLAN Tagging

Port-based VLANs

MAC-based VLANs

GARP VLAN Registration Protocol (GVRP)

Management and Monitoring

WEB

RFC 1157 SNMPv1/v2c

RFC 2570 SNMPv3

RFC1213 MIB-II

RFC1493 Bridge MIB

RFC 2863 Interfaces group MIB

RFC 1643 Ethernet like MIB

Stats, History, Alarms, Events

RFC 2674 802.1Q MIB

IP address allocation

Security

Management Security: user name and password protection

Fault Protection

Broadcast Storm Control

Ingress egress rate control

Quality of Services (QoS)

QoS in layer 2

Traffic prioritization using 802.1p

System Configuration

W x D x H 440mm x 257mm x 43.2mm

(17.32" x 10.11" x 1.70")

Weight 3.15kg (6.94lb)

Mounting 19" rack-mountable hardware included

Power supply

Internal – 48 Vdc, or 220 Vac option

Operating temperature range

– 5° C up to +45° C, (class 3.2)