



# MGE88/168G

## Stackable Gigabit L2/L3 Managed Ethernet Switch with 16xFE, 4xGE and 8xE1 media converters

- Up to 4 10/100/1000 Mbit/s Auto-Negotiation RJ45 ports supporting Auto-MDI/MDX, 1 G SFP optional
- Up to 16 10/100 Mbit/s Auto-Negotiation RJ45 ports supporting Auto-MDI/MDX
- Up to 8xE1 2048 kbit/s ITU-T G.703 ports with EoE1 media converters, HDCL encapsulation
- Stacked devices are fully manageable and behaves as a single device
- Port-Based VLAN and IEEE 802.1Q tag VLAN
- 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
- Internal power supply, -48 Vdc or 220 Vac option



↑ Power LED    ↑ 16 x Fast Ethernet    ↑ 4 x 1G Ethernet    ↑ IP reset    ↑ E1 LED    ↑ 8 x E1

**IRITEL**  
*bright  
connections*

TELECOMMUNICATIONS AND ELECTRONICS

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## Description

IRITEL MGExxxG series of High performance Managed Ethernet Switching devices besides of the true Ethernet access MGExxxG offers versatile combination of user interfaces integrated together with media converters thus reducing the need for external media converters. Stacked switches behaves as larger switch managed as a single device.

## Application

MGExxxG devices provides edge connectivity utilizing existing E1 and copper infrastructure, applicable in mid-sized and large scaled campus, corporate and metro access networks, MGExxxG is especially tailored to provide connectivity and LAN extensions between numerous remote sites. MGExxxG devices are scalable and they are ideal for extending port count in order to fulfil network growing requirements.

## 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.

## Available options

- MGE88G
  - 8 x Fast Ethernet, electrical interface
  - 8 x E1, 2048 kbit/s G.703 interfaces
  - 2 x 1G Electrical interfaces
  - 2 x 1G Optical (SFP) interfaces
- MGE168G
  - 16 x Fast Ethernet, electrical interface
  - 8 x E1, 2048 kbit/s G.703 interfaces
  - 2 x 1G Electrical interfaces
  - 2 x 1G Optical (SFP) interfaces

## 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

### 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)