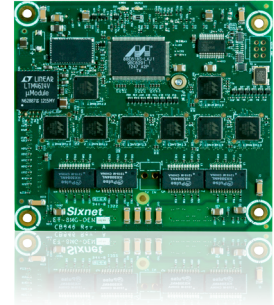


## ▶▶▶ OEM Industrial All-Gigabit Ethernet Switch

The Red Lion Sixnet ET-8MG-OEM is an 8 port industrial all-Gigabit Ethernet switch designed for OEM embedded applications.

This powerful board-level solution enables organizations to quickly create custom switches or use Ethernet to enable existing OEM systems. With powerful software, our custom Commercial Off-The-Shelf (COTS) solution keeps industrial networks up and running even in the toughest conditions.



### APPLICATIONS

- > Utilities
- > Transportation
- > Alternative Energy
- > Military
- > Security Surveillance

### PRODUCT HIGHLIGHTS

- > Board-level design for embedded applications
- > Support up to 8 ports: 10/100/1000BaseT copper, 100Base or 1000Base SFP or SFF fiber, or Combo (copper or fiber auto-detect)
- > 8 10/100/1000 PHYs and magnetics on board
- > Board-to-board connection
- > Extra output lines to drive external LEDs
- > Compact PC/104 design

### FEATURES & BENEFITS

- > Supports up to eight ports:
  - 10/100/1000BaseT Ethernet ports
  - 100Base SFF or SFP fiber ports
  - 1000Base SFF or SFP fiber ports
  - Combo (copper or fiber auto-detect)
- > -40° to 75°C wide temperature operation
- > 5.0 VDC power input
- > 10/100/1000BaseT(X), duplex and MDIX auto sensing
- > Security with HTTPS, SSL, SSH and TSL
- > Easy configuration via Web, Telnet or CLI
- > Broadcast and multicast storm protection
- > Fully managed features include:
  - SNMP v1, v2, v3
  - RSTP 802.1d, 802.1w, 802.1D
  - MSTP
  - IGMP v1, v2
  - Port mirroring
  - 802.1Q tag VLAN and port VLAN
  - 802.1p QoS, port QoS and DSCP
  - DHCP Client/Server

# ET-8MG-OEM Specifications

## SWITCH PROPERTIES

Ethernet ports: 8 Gigabit  
 Ethernet type: Managed  
 Ethernet protocols: All IEEE 802.3 (copper or SFP/SFP fiber is supported)  
 Ethernet isolation: 1,500 VRMS 1 minute  
 MAC addresses: 8,192  
 Typical latency (varies on load): <5  $\mu$ s plus frame time  
 Wire speed switching: store and forward  
 Memory bandwidth: 32 Gbps

## POWER INPUT

Power input voltage: 5.0 VDC (regulated)  
 Input power: 16W Maximum  
 BTU/hr: 55

## CONNECTORS

3 board-to-board connectors for 8 Gigabit copper or fiber ports (on-board PHYs and magnetics provided)

## ENVIRONMENTAL

Operating temperature: Up to -40° to 75°C dependent on cooling implementation\*  
 Storage temperature: -40° to 85°C  
 Humidity: 5% to 95% RH (non condensing)  
 Shock and vibration: IEC68-2-6, -2-27 and -2-32 with proper mounting

## MECHANICAL

Weight (maximum):  
 ET-8MG-OEM-F - 1.5 oz. (0.04 kg)  
 ET-8MG-OEM-HSK1 - 4.4 oz. (0.12 kg)  
 ET-8MG-OEM-HSK2 - 5.4 oz. (0.15 kg)

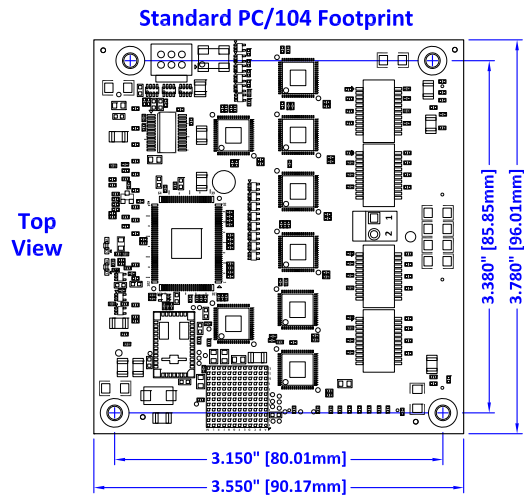
All specifications are subject to change. Consult the company website for more information.  
 \*Reference technical note for cooling options

## ORDERING GUIDE

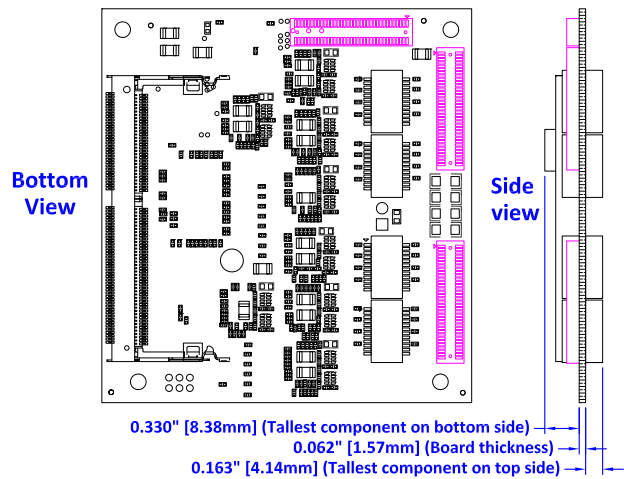
PART NUMBER	DESCRIPTION
ET-8MG-OEM-F	8-port Gigabit managed Ethernet switch board assembly
ET-8MG-OEM-TF	Test/development fixture
ET-8MG-OEM-HSK1	Heat-sink kit for conductive cooling
ET-8MG-OEM-HSK2	Heat-sink kit for fan cooling

## DIMENSIONS

Width: 3.55" (9.0 cm)  
 Height: 3.78" (9.6 cm)



(See Technical Note for More Detailed Dimensions)



[www.redlion.net](http://www.redlion.net)

Connect. Monitor. Control.

**Americas**  
 sales@redlion.net

**Asia-Pacific**  
 asia@redlion.net

**Europe  
 Middle East  
 Africa**  
 europe@redlion.net

+1 (717) 767-6511

As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our award-winning technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. For more information, please visit [www.redlion.net](http://www.redlion.net). Red Lion is a Spectris company.