

# EB-GT-8ES-1EP IP67 Industrial Ethernet Switch

Sixnet's EB-GT-8ES-1EP is an 8 port unmanaged [Industrial Ethernet switch](#) that features IP67 water-tight packaging and MIL-STD-1275 power protection. With a fully-potted design and IP67 water-tight case, our high-performance industrial switches offer an ideal Commercial off-the-shelf (COTS) [military solution](#) for battlefield communications, combat vehicles and avionics shipboard as well as other [industrial applications](#) that require rugged reliability in extreme environments.



## Product Highlights

## Overview

### Industrial Switch Product Highlights

- 8 10/100Mbps auto-detecting ports
- Fully-potted rugged design
- IP67 water-tight case and connectors
- Superior shock and vibration resistance
- MIL-STD-1275 power protection
- Direct machine mounting saves space

### Ideal For COTS



To learn more about [Industrial Ethernet Switch](#), simply contact [sales@sixnet.com](mailto:sales@sixnet.com) or call +1 (518) 877-5173.

## Features

### Real-Time Ethernet Performance

- Fast wire-speed switching
- Intelligent message routing (no collisions)
- All IEEE 802.3 protocols supported
- Plug and play operation (no setup required)

### Trouble-Free Operation

- Ultra-reliable 1,000,000+ hours MTBF proven in over 4,000 military vehicles

- -40 to 60°C operation with no fans!
- UL/CSA (CUL), CE and HazLoc (Zone 2) rated
- Military surge and spike protection

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## Specs

### Ethernet Performance

- Unmanaged, store and forward, wire-speed
- All IEEE 802.3 Ethernet protocols supported
- 8 fast 10/100 Ethernet ports
  - 10/100BaseTX
  - Speed and duplex auto-negotiation
  - MDI/MDIX auto-crossover
  - TD and RD auto-polarity
- Typical latency (varies on load and settings)
  - @ 10 Mbps: 16 us + frame time
  - @ 100 Mbps: 5 us + frame time
- Full duplex operation with flow control
- MAC addresses supported: 1024
- Memory bandwidth: 2 Gbps
- Ethernet isolation: 1500 VRMS 1 minute

### Ethernet Compliance

- IEEE 802.3u (fast Ethernet 100Mbps)
- IEEE 802.3 (original 10Mbps Ethernet)
- IEEE 802.3x (Full-Duplex with Flow Control)

### Power Input

- Reverse polarity protection
- Input power (typ. with all ports active)
  - 4 W
- Power input voltage +/-16-40 VDC
- Power protection per MIL-STD-1275

### Environmental

- Operating temperature:
  - -40 to 60°C (cold startup at -40°C)
- Storage temperature -40 to 85°C
- Humidity: 100% RH
- Vibration and shock: IEC60068-2-6, -27, -32

### Standards & Compliance

- Electrical safety: UL508/CSA C22.2/14; EN61010-1, CE
- EMC: FCC part 15, ICES-003; EN61000-6-2/4, CE
- Hazardous locations
  - UL1604/CSA C22.2/213 (Class I, Div. 2)

- EN60079-15 (Zone 2, Category 3)
- CE (ATEX)
- Maritime – designed for marine and offshore per ABS
- RoHS and WEEE compliant
- ISO9001:2000 certified company

## Physical

- Direct machine mounting
- Case: UL 94V-0 materials
- Ingress protection: IP67 water-tight
- Weight – 2.5 lbs (1.3 kg)
- Dimensions – see mechanical diagram

All specifications are subject to change. Contact Sixnet to learn more.

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## Order Guide

Part Number	Description
EB-GT-8ES-1EP	8-port IP67 unmanaged industrial switch with 8 tethered caps

### Accessories

Part Number	Description
EB-CC-PS-F1	Field-installable IP67 rated DC power input plug
EB-CC-CAT5-M4	Field-installable IP67 rated RJ45 plug (4 piece pack)
EB-CC-CAP-L4	Replacement IP67 Ethernet receptacle closure cap with tether (4 piece pack)
EB-CP-RJ45-F1	IP67 rated bulkhead connector with tethered cap (for making waterproof connections to the outside of electrical enclosures)

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