



Sixnet Series Industrial IP67 & OEM Switches

COTS solutions rugged enough
for military applications



Rugged IP67 & OEM Switches

Sixnet series industrial Ethernet switches from Red Lion Controls are built to military standards, bringing advanced networking capabilities to the field. Thousands of tanks, armored personnel carriers, unattended vehicles (UAVs), weapons control systems, naval vessels, helicopters, airplanes, drones and other assets that are deployed today depend on Red Lion products to reliably and securely manage critical systems and maintain communications. From the battlefield to the seas to the skies, Red Lion brings the best of commercial off the shelf (COTS) communication technology and military-grade construction to the front lines.

Our products are tough enough for the military environment. We pack advanced, standardized technology into our industrial Ethernet switches, meeting military standards for security and resistance to shock, vibration, emissions, temperature, sand, dirt, liquids, humidity, steam and other conditions that will ruin commercial-grade devices. Our switches are as smart as they are strong. They can simultaneously process input from data, voice, video, GPS, sensor and other sources at Gigabit Ethernet speeds while providing critical components Command, Control, Communications, Computers, Combat Systems, Intelligence, Surveillance and Reconnaissance (C5ISR) and other advanced military systems.

Red Lion designs and manufactures the broadest line of military-grade switches in the industry. This means customers can choose the most optimal products to meet specific performance and integrations requirements for mobile assets, including vehicles and base infrastructure systems.



▶▶▶ IP67 Industrial Ethernet Switches

Red Lion's rugged IP67 industrial Ethernet switches provide reliable network performance. These rugged and compact Ethernet switches comply with military standards, providing reliable and cost-effective (COTS) networking solutions for mission critical applications.

- > Rugged Ethernet switches
- > Versatile unmanaged and managed networking solutions
- > Flexible deployment options
- > Hardened for the toughest applications



Sixnet Series IP67 Industrial Ethernet Switches

- > Commercial off-the-shelf (COTS) solutions
- > Field tested and proven to support the harshest defense applications
- > Industrial rated to be water-tight and shock resistant



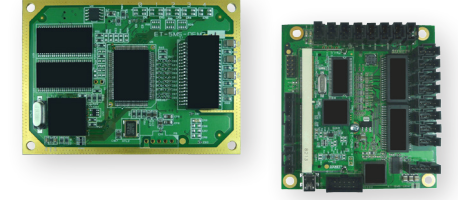
PART NUMBER	TYPE	TOTAL PORTS	10/100	10/100/1000	GIGABIT*	10 GIG FIBER**	MILITARY RATINGS
ET-8MS-MIL-1	Managed Layer 2	8	8	-	-	-	Full
ET-8MG-MIL-1	Managed Layer 2	8	-	8	-	-	Full
MIL-312	Managed Layer 3	12	-	12	-	-	Full
MIL-314	Managed Layer 3	14	-	12	-	2	Full
MIL-316	Managed Layer 3	16	-	12	4	-	Full
MIL-318	Managed Layer 3	18	-	12	4	2	Full
ET-8ES-MIL-1	Unmanaged	8	8	-	-	-	Full
ET-8EG-MIL-1	Unmanaged	8	-	8	-	-	Full
ET-5ES-IP67-E	Unmanaged	5	5	-	-	-	MIL-STD-1275D
EB-GT-8ES-1EP	Unmanaged	8	8	-	-	-	MIL-STD-1275D

** Multimode and Single mode fiber options available
* Copper and Fiber options available

To see our complete line of industrial networking solutions, including IP67 wireless devices, please visit www.redlion.net

Sixnet Series Board-Level Ethernet Switches

- > Ideal for embedded COTS applications
- > Extremely compact and low power consumption
- > Standard PC/104 footprint for easy integration

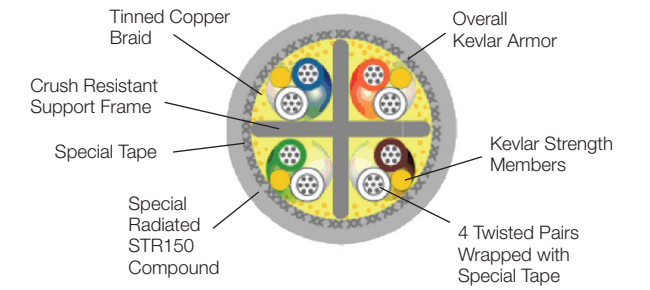


PART NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET		GIGABIT ETHERNET		SIZE
			10 / 100	100 FIBER	10 / 100/ 1000	GIG FIBER	
ET-5MS-OEM	Managed	6	Up to 6	Up to 1	-	-	Ultra-compact 2.5 x 3.5"
ET-8MS-OEM	Managed	10	8	Up to 2	Up to 2	Up to 2	Standard PC/104 3.6 x 3.8"
ET-8MG-OEM-F	Managed	Up to 8	Up to 8	Up to 8	Up to 8	Up to 8	Standard PC/104 3.6 x 3.8"

Industrial Ethernet Cable

PART NUMBER	TYPE
EB-CAT5E	Kevlar-reinforced category 5 Ethernet cabling
ET-CAT6M	Kevlar-armored category 6 Ethernet cabling

CAT6 Kevlar Cable





Designed for Extreme Conditions

RUGGED ENOUGH TO MEET DEMANDING DEFENSE APPLICATIONS

> Rugged, proven hardware

- Bombers, transports, UAVs and other aircraft
- Stryker Light Armored Vehicles
- Naval vessels and offshore platforms
- Land vehicles with fluctuating power
- Missile delivery systems
- Battlefield management systems
- C5ISR systems
- Ground support facilities

OVER 9,000 DEPLOYED

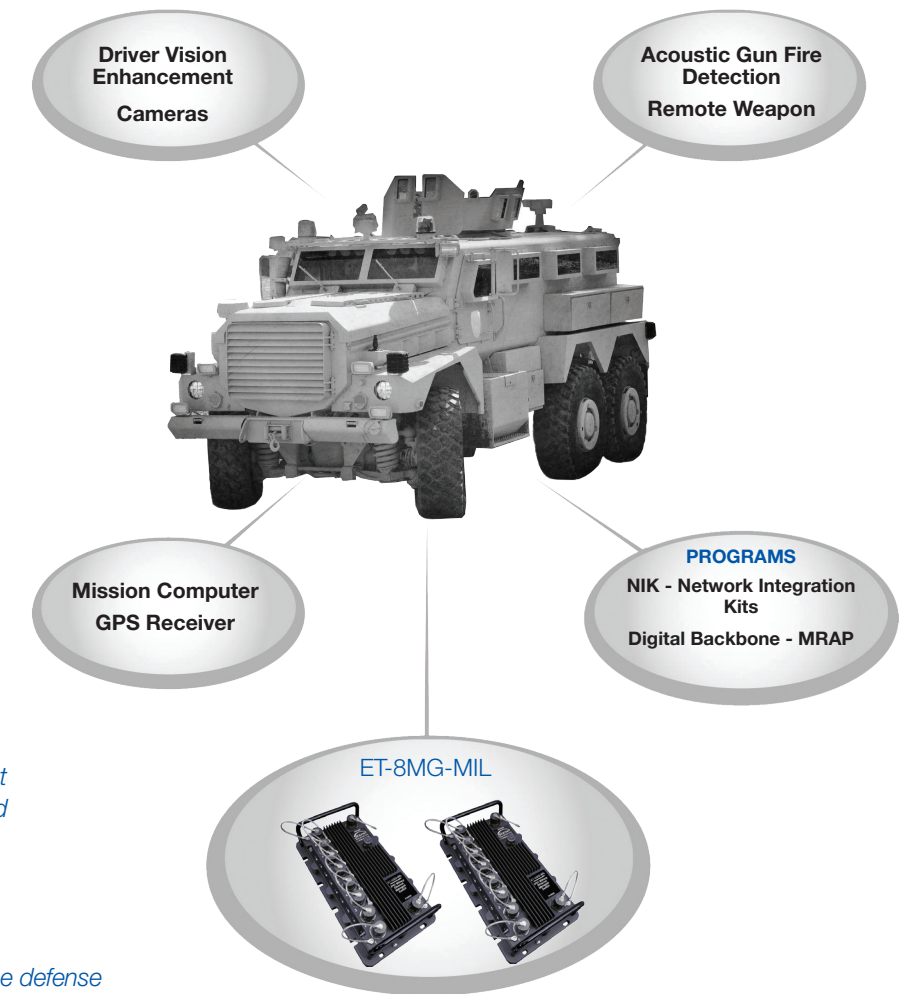
The EB-GT-8ES-1EP switches, designed for MIL-STD-1275 power requirements, are being used in Stryker Light Armored Vehicles.

"Sixnet is addressing the military market with a set of Ethernet switches that have been designed and certified to full military standards."

- Armor & Mobility

"Our organization is extremely satisfied with the defense expertise Sixnet's portfolio of IP67 switches brings to the table."

- A.E. Petsche



About Red Lion

Red Lion is growing. In addition to the panel meters, HMIs and other industrial automation products that Red Lion customers have always trusted, we now offer a broad selection of communication technologies for industrial networks. Our networking products include industrial Ethernet switches, Wi-Fi devices and cellular M2M routers.

The end result? A comprehensive set of products that enable you to connect, monitor and control anything. From one device to a thousand devices. Connecting serially, via Ethernet, or over high-speed wireless networks. Speaking one protocol, or hundreds of protocols. On a single machine, across your factory, or spanning multiple sites all over the globe.



A comprehensive portfolio of industrial automation and networking solutions to **connect. monitor. control.**



Industrial Automation

Process Control

- PID Controllers
- Data Acquisition
- RTUs & I/O Modules
- Signal Conditioners
- Sensors

HMIs & Panel Meters

- HMI Operator Panels
- Panel Meters
- Large LED Displays
- Industrial TV Displays

Industrial Networking

Ethernet Switches

- Unmanaged
- Monitored
- Managed
- PoE
- Routers
- Wi-Fi Radios

Cellular M2M

- Cellular Routers
- Cellular RTUs

Communication Converters

- Protocol Converters
- Media Converters
- Serial Converters

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. Red Lion is a Spectris company.



Americas
sales@redlion.net

Asia-Pacific
asia@redlion.net

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

+1 (717) 767-6511

Connect. Monitor. Control.

www.redlion.net