

DATASHEET

ELXM-SW6 ProLinx Edge™ Mini

The ProSoft Technology Fast Industrial Hotspot (ELXM-SW6) provides secure wireless solutions for plant-floor, SCADA automation, and process control systems. It operates in the 2.4, 5 and 6 GHz bands, including DFS channels.

The Hotspot supports Access Point and Client modes. The 802.11ax technology works on data rates up to 1201 Mbps over the air. This provides excellent packet-per-second performance and robust communications in rugged industrial environments. The 802.11ax MIMO & Channel bonding supports demanding wireless applications such as Ethernet I/O and high-resolution video.

The included IH Browser configuration and monitoring software allows the user to view network topology, assign IP addresses, monitor network diagnostics, and update radio firmware.



Features

- ◆ EtherNet/IP™- or Modbus®-based PLCs/PACs can use message instructions to read diagnostic information from the radios, helping to reduce downtime when troubleshooting wireless network problems.
- ◆ WPA2/WPA3 Personal and Enterprise security support ensures secure networking with advanced authentication and encryption.
- ◆ HTTPS support for Web Access and Firmware updates.
- ◆ ELXM-SW6-E model RED 3.3 compliant.
- ◆ Network Address Translation (NAT) allows machine builders to deploy machines with identical local IP configuration.
- ◆ Quality of Service (QoS) provides data prioritization for I/O control devices, video data, etc.
- ◆ 802.11r Fast Roaming over the Air and over DS maintains seamless, high-speed connections to one or more devices on moving equipment and machines (such as cranes, AGVs, and carriers) as they travel between Access Points.
- ◆ Supports the ability to communicate with multiple Ethernet devices when used with existing third-party wireless infrastructures.
- ◆ SNTP support resulting in real-time timestamps in log messages.
- ◆ Syslog supports exporting of status and diagnostic messaging.
- ◆ Disaster recovery feature allows the radio configuration to be stored on a microSD card for quick field replacement.
- ◆ Simple local and remote configuration, monitoring, and wireless network diagnostics via IH Browser utility or SNMP.

Radio Specifications

Specification	Frequency	Channel																								
Frequency band (Varies by model)	2.401 GHz to 2.473 GHz (FCC)	1 to 11																								
	2.401 GHz to 2.483 GHz (ETSI)	1 to 13																								
	5.170 GHz to 5.250 GHz (FCC/ETSI)	36 to 48																								
	5.250 GHz to 5.330 GHz (FCC/ETSI) *	52 to 64 *																								
	5.490 GHz to 5.590 GHz (FCC/ETSI) *	100 to 116 *																								
	5.650 GHz to 5.710 GHz (FCC/ETSI) *	132 to 140 *																								
	5.735 GHz to 5.835 GHz (FCC/ETSI SRD)	149 to 165																								
	5.945 GHz to 7.105 GHz (FCC) *	5 to 229 *†																								
	5.945 GHz to 6.425 GHz (ETSI) *	5 to 85 *†																								
	* Client modes only																									
	† Primary channel must be a PSC channel																									
Wireless standards	802.11ax, 802.11ac, 802.11n, 802.11a, 802.11g, 802.11h (DFS), 802.11i (Security), 802.11e (QoS), 802.2Q (VLAN), 802.3, 802.11k, 802.11v (wireless management, Client modes only)																									
Max. Transmit power (Subject to regional regulatory limits)	19 dBm @ MCS0 - 5 GHz / 6 GHz (802.11ax) 13 dBm @ MCS11 - 5 GHz / 6 GHz (802.11ax) 17 dBm @ 54 Mb/s - 5 GHz (802.11a) 20 dBm @ MCS0 - 2.4 GHz (802.11ax) 17 dBm @ MCS7 - 2.4 GHz (802.11ax) 15 dBm @ MCS11 - 2.4 GHz (802.11ax) 20 dBm @ 54 Mb/s - 2.4 GHz (802.11g) Antenna Impact: only 1 Antenna: Subtract 3 dB from values above, ±2dB tolerance																									
Channel data rates 802.11ax	MCS0 through MCS11 (0.8usec GI) 20, 40 or 80 MHz Channels with 1 Stream or 2 Streams																									
	<table><tr><th>20 MHz Channel</th><th>40 MHz Channel</th><th>80 MHz Channel</th><th>Rate</th><th>Streams</th></tr><tr><td>8.6 Mbps</td><td>17.2 Mbps</td><td>36.0 Mbps</td><td>MCS0</td><td>1 Stream</td></tr><tr><td>143.4 Mbps</td><td>286.8 Mbps</td><td>600.5 Mbps</td><td>MCS11</td><td></td></tr><tr><td>17.2 Mbps</td><td>34.4 Mbps</td><td>72.1 Mbps</td><td>MCS0</td><td>2 Streams</td></tr><tr><td>286.8 Mbps</td><td>573.5 Mbps</td><td>1201.0 Mbps</td><td>MCS11</td><td></td></tr></table>	20 MHz Channel	40 MHz Channel	80 MHz Channel	Rate	Streams	8.6 Mbps	17.2 Mbps	36.0 Mbps	MCS0	1 Stream	143.4 Mbps	286.8 Mbps	600.5 Mbps	MCS11		17.2 Mbps	34.4 Mbps	72.1 Mbps	MCS0	2 Streams	286.8 Mbps	573.5 Mbps	1201.0 Mbps	MCS11	
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Receiver sensitivity (Typical)	-95 dBm @ MCS0 - 5 GHz / 6 GHz (802.11ax) -77 dBm @ MCS7 - 5 GHz / 6 GHz (802.11ax) -66 dBm @ MCS11 - 5 GHz / 6 GHz (802.11ax) -92 dBm @ MCS0 - 2.4 GHz (802.11ax) -72 dBm @ MCS7 - 2.4 GHz (802.11ax) -63 dBm @ MCS11 - 2.4 GHz (802.11ax)																									
Security	WPA2/3 Personal/Enterprise 802.11w (Protected Management Frames) MAC ID filter, RADIUS, HTTPS																									
Network Features	NAT, VLAN, QoS, IGMP Snooping																									

Physical

Specification	Description
Enclosure	IP30 - Plastic - DIN rail or surface mountable
Dimensions (H x W x D)	5.11 x 1.57 x 3.94 in 130 x 40 x 100 mm
Shock	IEC 60068 2-27 (20g, 3-Axis)
Vibration	IEC 60068 2-6 (5g, 10Hz to 150Hz) when panel mounted
Ethernet Port	(1) 10/100/1000 Base-T connector, shielded RJ45 IEEE 802.3, 802.3u, 802.3x, 802.3ab, 802.3ac
Antenna Port	(2) RP-SMA female connectors, compatible with RP-SMA male antennas
SD Card	microSD for device configuration and firmware storage, easy device replacement
Weight	0.6 lbs (0.27 kg)

Environmental

Specification	Description
Operating Temperature	-4°F to 149°F (-20°C to 65°C)
Humidity	5-95% Relative Humidity, non-condensation
External Power	10 to 30 VDC
Peak Power Consumption	< 6W



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Connects™

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EMC	Description
ETSI EN 301 489-1 V2.2.3 (2019-11)	Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonized Standard for Electromagnetic Compatibility
ETSI EN 301 489-17 V3.2.4 (2020-09)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonized Standard for Electromagnetic Compatibility
EN IEC 61326-1: 2020	Electrical equipment for measurement, control and laboratory use EMC requirements Part 1: Generic requirements
FCC 47 CFR Part 15, Subpart B – Verification	Title 47: Telecommunication; Part 15—Radio Frequency Devices
ICES-003 Issue 7: 2020	Information Technology Equipment (including Digital Apparatus)

What's included in the box:

- (1) ELXM-SW6 (802.11ax Fast Industrial Hotspot Radio)
- (1) Power connector plug (for connection to user's DC power source wiring)



Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our website at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

802.11ax

Fast Industrial Hotspot

At product launch:

ELXM-SW6-A (USA)
ELXM-SW6-E (Europe)

Possible future variants:

ELXM-SW6-AU (Australia & NZ)
ELXM-SW6-BR (Brazil)
ELXM-SW6-CN (China)
ELXM-SW6-IN (India)
ELXM-SW6-JP (Japan)
ELXM-SW6-KR (Korea)
ELXM-SW6-MX (Mexico)
ELXM-SW6-MY (Malaysia)
ELXM-SW6-SA (Saudi-Arabia)
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ELXM-SW6-TH (Thailand)
ELXM-SW6-VN (Vietnam)

To place an order, please contact a local ProSoft distributor.

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