

DATASHEET

ELXM- SW6ProLinx Edge™ Mini

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

The Hotspot Client modes. 802.11ax technology works on data rates up to 1020 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.
- RADIUS security ensures secure networking with advanced authentication and encryption.
- Network Address Translation (NAT) lets machine builders 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.
- ♦ IGMP Snooping & Packet Filtering optimizes UDP multicast traffic for superior EtherNet/IP I/O communications.
- Supports the ability to communicate with multiple Ethernet devices when used with existing third-party wireless infrastructures.
- ♦ 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

Frequency	•		С	hannel
				1 to 11
2.412 GHz to	2.472 GHz (E	TSI)		1 to 13
5.150 GHz to	5.250 GHz (F	CC/ETSI)		36 to 48
5.260 GHz to 5.580 GHz (FCC/ETSI)				52 to 116
5.660 GHz to 5.700 GHz (FCC/ETSI)				132 to 140
5.725 GHz to 5.850 GHz (FCC) 149 to 165				
			(0.0)	
` ,				
20 dBm @ 54 Mb/s- 2.4 GHz (802.11g)				
Antenna Imp	act: only 1 Ant	enna: Subtract	3 dB from	values
above, ±2dB tolerance				
MCS0 through	h MCS10 (3.2	usec GI)		
20, 40 or 80 MHz Channels with 1 Stream or 2 Streams				
20 MH-	40 MHz	80 MHz		
	Channel	Channel	Rate	Streams
	14.6 Mbps	30.6 Mbps	MCS0	1 Stream
	•			
-	<u> </u>			2 Streams
				_ Z Oli Carris
	<u> </u>	<u> </u>		
-63 dBm @ MCS11 - 2.4 GHz (802.11ax)				
WPA2/3 Personal/Enterprise				
802.11w (Protected Management Frames)				
NAT, QoS, I	GMP Snooping	1		
IP30 - Plastic	c - DIN rail or s	urface mounta	ble	
130 x 40 x 100 mm				
IEC 60068 2	-27 (20g, 3-Ax	is)		
IEC 60068 2-6 (5g, 10Hz to 150Hz) when panel mounted				
` '	female connec	ctors, compatib	le with RP	SMA male
		ration and firm	ware stora	ge, easy
U.6 IDS (U.27	Kg)			
5-95% Relative Humidity, non-condensation				
0 00 70 Ttolati	· · · · · · · · · · · · · · · · · · ·			
10 to 30 VD0				
	2.412 GHz to 2.412 GHz to 5.150 GHz to 5.260 GHz to 5.260 GHz to 5.260 GHz to 5.725 GHz to 802.11ax, 802 802.11h (DF 802.11k, 802 19 dBm @ M 15 dBm @ M 15 dBm @ M 20 dBm @ 5 Antenna Imp above, ±2dB MCS0 throug 20, 40 or 80 20 MHz Channel 7.3 Mbps 121.9 Mbps 14.6 Mbps 243.8 Mbps -95 dBm @ M -72 dBm @ M -72 dBm @ M -92	## Prequency 2.412 GHz to 2.462 GHz (F 2.412 GHz to 2.472 GHz (E 2.412 GHz to 2.472 GHz (E 5.150 GHz (F 5.260 GHz to 5.580 GHz (F 5.660 GHz to 5.580 GHz (F 5.725 GHz to 5.850 GHz (F 802.11ax, 802.11n, 802.11 (Se 802.11k, 802.11v (wireless 19 dBm @ MCS0 - 5 GHz 15 dBm @ MCS0 - 5 GHz 13 dBm @ MCS11 - 5 GHz 17 dBm @ 54 Mb/s- 5 GHz 20 dBm @ MCS0 - 2.4 GH 17 dBm @ MCS1 - 2.4 GH 15 dBm @ MCS1 - 3 Mbps 14.6 Mbps 29.3 Mbps 14.6 Mbps 29.3 Mbps 14.6 Mbps 29.3 Mbps 243.8 Mbps 487.5 Mbps -95 dBm @ MCS0 - 77 dBm @ MCS1 - 66 dBm @ MCS1 - 66 dBm @ MCS1 - 63 dBm @ MCS	2.412 GHz to 2.462 GHz (FCC) 2.412 GHz to 2.472 GHz (ETSI) 5.150 GHz to 5.250 GHz (FCC/ETSI) 5.260 GHz to 5.580 GHz (FCC/ETSI) 5.660 GHz to 5.700 GHz (FCC/ETSI) 5.725 GHz to 5.850 GHz (FCC) 802.11ax, 802.11n, 802.11i (Security), 802.11 802.11h (DFS), 802.11i (Security), 802.11 802.11k, 802.11v (wireless management, 19 dBm @ MCS0 - 5 GHz (802.11ac) 13 dBm @ MCS0 - 5 GHz (802.11ac) 13 dBm @ MCS1 - 5 GHz (802.11ac) 13 dBm @ MCS1 - 5 GHz (802.11ac) 13 dBm @ MCS1 - 2.4 GHz (802.11n, ax) 17 dBm @ MCS7 - 2.4 GHz (802.11n, ax) 15 dBm @ MCS1 - 2.4 GHz (802.11n, ax) 15 dBm @ MCS1 - 2.4 GHz (802.11n, ax) 15 dBm @ MCS1 - 2.4 GHz (802.11n, ax) 16 dBm @ MCS1 - 2.4 GHz (802.11n, ax) 17 dBm @ MCS1 - 2.4 GHz (802.11ax) 20 dBm @ 54 Mb/s- 2.4 GHz (802.11ax) 20 dBm @ 55 GHz (802.11ax) 20 dBm @ MCS1	## Cannot Service



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Agency Approvals & Certifications

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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; Harmonised 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; Harmonised Standard for ElectroMagnetic Compatibility
EN IEC 61326-1: 2020	Electrical equipment for measurement, control and laboratory use EMC requirementsPart 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 customer'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

802.11ax Fast Industrial Hotspot

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)

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