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ELXM-SW6

ProLinx Edge™ Mini

802.11a, b, g, n, ac, ax

September 15, 2026

RELEASE NOTES

Your Feedback Please

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ELXM-SW6 Release Notes
For Public Use.

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1 Start Here

This document highlights the new features, fixes, enhancements and known issues for the ELXM-SW6.

1.1 Special Notes

This section contains information regarding special procedures and potential limitations that may be required for this release.

1.2 About the ProLinx Edge™ Mini Products

Model	Standards	Maximum Output Power
ELXM-SW6	IEEE 802.11a/b/g/n/ac/ax	20 dBm (100 mW)

The ELXM-SW6 dual-band 802.11 Industrial Client is a high-speed wireless Ethernet radio operating at speeds up to 1020 Mbps. Designed for industrial installations, the ELXM-SW6 series offer many features including hazardous location certifications, IGMP Snooping, OFDM for noise immunity, QoS, VLANs, Enterprise security, automatic parent selection for self-healing, Ethernet/IP and SNMPv2 for remote diagnostics, extended temperature, high vibration/shock and DIN-rail or panel mounting.

1.2.1 BSD Licensed Software Included in ELXM-SW6

The ELXM-SW6 software contains two modules licensed under the BSD license:

- **AES**
- **wpa_supplicant**

1.2.1.1 AES

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1.2.1.2 wpa_supplicant

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This package may include either wpa_supplicant, hostapd, or both. See README file respective subdirectories (wpa_supplicant/README or hostapd/README) for more details.

Source code files were moved around in v0.6.x releases and compared to earlier releases, the programs are now built by first going to a subdirectory (wpa_supplicant or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

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1.3 Release Enhancements

Release Version	Release Date	Description
ELXM_v0044RED	26-Jun-2026	**Note:** This firmware is meant for the ELXM-SW6-E model. **Features/Improvements** • Added features to allow the ELXM-SW6-E to be compliant with European RED 3.3 requirements. • This version is released as a 'signed' image only. • Once this release is installed in a unit, it will no longer accept unsigned images. Previous ELXM-SW6 versions that are unsigned will be rejected, and downgrading to these previous versions will not be possible. • The Web Server has been upgraded to use HTTPS. A redirect to HTTPS port 443 service will redirect the web browser on attempts to access using HTTP if HTTP is disabled. • After a reset to factory defaults, all non-secure interfaces are now disabled and can only be enabled via existing or new controls on the web interface. Upon upgrading from an older version, the existing settings for these interfaces are preserved. This includes: ○ HTTP ○ FTP ○ Telnet (serial log of ELXM-SW6) ○ SNMP ○ EIP/Modbus Agent • Firmware updates are now possible via a new **Upload Image File** button on the main webpage. **Note:** This is only for firmware images, not configuration files. • The new version of IH Browser will use HTTPS cURL commands with Digest Authentication instead of FTP to update firmware and/or configuration files. **Resolved issues from ELXM_v0043:** • None.
ELXM_v0043	20-May-2026	**Features/Improvements** • Added support for 6 GHz Wi-Fi 6E operation for both ELXM-SW6-A and ELXM-SW6-E models. • Activated support for Soft AP mode for both ELXM-SW6-A and ELXM SW6-E models. AP mode is limited to 2.4/5 GHz bands, no DFS channels, no WPA3. • Reduced firmware image size by removing support for unused radio modules. • Increased the retry limit for management frames to improve the probability of delivery • Added a "No Rx" web control to enable the detection of any Rx data lacking from the AP. This can be used in applications that have continuous data streams present and will trigger a re-association to the AP. • Added a "Scan All" web control in the Background Scan section to force the background scan to cover all channels in the enabled band(s). This should be set if it is determined that APs are not providing accurate neighbor channel info. **Resolved issues from ELXM_v0042B:** • Reduced likelihood of reconnecting to a blacklisted AP if all new AP candidates in range are at very low signal levels. • Now properly processes an EAP Reauthentication Identity Request received from AP instead of simply attempting to Re-associate to the AP.

		• Does not send a Disassociate to old AP when roaming to a new AP. Some APs/controllers glitched when this was done. • Updated radio firmware to resolve intermittent issue where receive or transmitter stopped working.
ELXM_v0042B	26-Nov-2025	**Features/Improvements** • Added support for new Watertight ELXM-SW6 model. • Allows either model to accept a Configuration file extracted from the other. **Resolved issues from ELXM_v0042A:** • Resolved issue around background scanning that would cause the radio to stop communicating.
ELXM_v0042A	21-Apr-2025	**Features/Improvements** • None **Resolved issues from ELXM_v0042:** • The link mode was incorrectly displayed as **802.11ac** instead of **802.11ax** on the ELXM-SW6 main web page when in the 2.4 GHz band. • Resolved issue when receiving an AMSDU with more than two MSDUs in it. The sequence numbering of intermediate MSDUs were being incorrectly interpreted. • Now limits the maximum Rx Block Ack window reported to the associated Access Point to **64**, to match that configured into the radio card firmware.
ELXM_v0042	18-Mar-2025	**Features/Improvements** • Added full support for all 802.11ac and 802.11ax Tx Rates with either 1 or 2 streams. • Added support for 40MHz and 80MHz channel widths. • Added support for SRD channels (149 to 165) in ELXM-SW6-E model. • Added a new startup syslog event with more information about the device (name, model, firmware version, config signatures). • Added the new LED patterns being requested by the IH Browser to uncommissioned or unmanaged units. **Resolved issues from ELXM_v0041:** • Now detects and handles event log entries that were not preserved across a power cycle. • Now ensures that the ELXM-SW6, when in Client mode, always adopts its Tx Power setting from advertised value in its APs Beacon. • Ensures response to IH Browser's Software Module Signature request has valid signatures for all modules. • Corrects how the *Config_Files* and *OS_Files* Signatures reported in the EIP agent and serial log are calculated. • Now does not revert to factory defaults if the **Reset to User Defaults** web button is pressed and no User Defaults were saved in the unit. • Tx Attenuation control now attenuates independently of the maximum regulatory power allowed on a channel. • Removed unsupported WEP options from web settings. • Removed variables that are not supported by ELXM-SW6 from settings template provided to IH Browser so they do not display. • Limits passphrase to 63 characters.

2 Support, Service & Warranty

2.1 Contacting Technical Support

ProSoft Technology, Inc. is committed to providing the most efficient and effective support possible. Before calling, please gather the following information to assist in expediting this process:

1. Product Version Number
2. System architecture
3. Network details

If the issue is hardware related, we will also need information regarding:

1. Module configuration and associated ladder files, if any
2. Module operation and any unusual behavior
3. Configuration/Debug status information
4. LED patterns
5. Details about the interfaced serial, Ethernet or Fieldbus devices

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