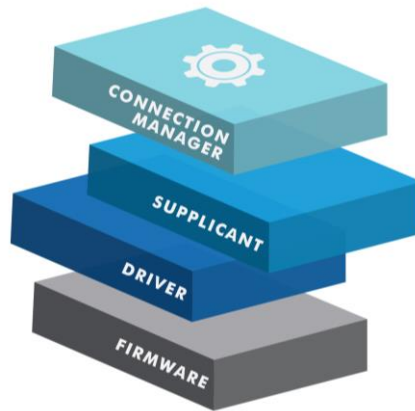


HARNESS THE FULL POTENTIAL OF LAIRD'S 60 SERIES MODULES



The Summit Software Stack is an enterprise-grade software update that unlocks the full potential of Laird's 60 Series modules. Understanding that each RF environment is different, Laird has taken careful considerations into the configurability and feature enhancements of the Summit Stack to ensure that devices perform at peak performance. The Summit Software Stack includes optimizations that reduce channel scan times, provides up to 15 times faster roaming, and up to 50 percent more consistent roaming when compared with other radios.

The Summit Stack includes Tier-2 support with Laird's industry-best support team. Let Laird's support and engineering experts speed your design to market with our most comprehensive feature set to date.

- **Custom Module Firmware** – Improved Wi-Fi stability and fully integrated with the rest of the stack to improve scanning and roaming, plus adaptive Worldwide Mode.
- **Laird Wireless Supplicant** – Hundreds of bug fixes above open-source supplicant, with significant security and authentication enhancements and vastly improved roaming functionality.
- **Upgraded Connection Manager** – Configurable scan/roam parameters, channel masking, and middle certificate support in conjunction with all underlying stack layers.

FEATURES AT A GLANCE



WIRELESS FOR HARSH ENVIRONMENTS

Laird's Summit Stack brings reliable wireless to the applications and environments that need it most, where connectivity is a must.



IMPROVED AND OPTIMIZED SUPPLICANT

Laird' customized wireless supplicant brings more stability, security, and reliability to your wirelessly enabled devices.



ENDLESSLY CUSTOMIZABLE TO YOUR NEEDS

Every RF environment is different. Customize your radio with channel masking to simplify scans, tweak roam triggers, reconnects, and authentication settings.



SLEEP WHEN INACTIVE AND SAVE POWER

Wake-on-Wireless functionality lets your device sleep until wireless traffic is sent to your device, greatly reducing power consumption.



WORLDWIDE MODE FOR EASIER DEPLOYMENT

Adaptive worldwide mode lets you deploy one SKU anywhere in the world and optimize the radio's power based on the local regulatory domain.



INDUSTRY-LEADING SUPPORT

Laird's Tier 2 and FAE support bring expert assistance to your integration, working with you and Laird engineering to reduce your time to market.

APPLICATION AREAS



Healthcare and Medical Devices



IoT Bridging / Gateways



Industrial Environments

Sterling vs. Summit – Direct Comparison

Category	Feature	Sterling	Summit	Specification
ENHANCED SCANNING AND ROAMING	802.11k, 802.11v		x	Allows infrastructure topology and loading information to be shared with the client to improve client roaming and battery performance and overall better network performance
	802.11r (Optimized)	x	x	Enhancements and fixes to 802.11r to improve fast roaming
	Channel Masking		x	Decreases the number of channels scanned by client radio
	Configurable Scan Timing		x	Configure the interval at which a radio scans for new APs
	Configurable Roam – Trigger, Delta, Threshold		x	Configurable parameters to control the radio's roaming behavior
	DFS Enable/Disable		x	Enable or disable passive scanning on DFS channels
	CCKM and CCXIE		x	Cisco's proprietary fast-roaming mechanism
ENHANCED STABILITY	Automatic Detection of OPMK/SMPK		x	Automatically determines WPA/WPA2 key caching
	Improved OPMK/PMKID Support		x	Optimizes the handling of key caching for WPA and WPA2 networks
	Suppress Broadcast Scanning – Specific SSID		x	Improves spectrum efficiency
	TLS Improvements		x	Interoperability improvements for TLS
IMPROVED SECURITY	Fast Start-up Connections		x	Allows a client to connect to an infrastructure without re-authenticating – reducing the time needed to connect to an AP
	Configurable Authentication Timeout		x	Faster connection recovery when the infrastructure drops an EAP authentication or helpful for customers who require longer authentication times
	Full EAP-FAST Support		x	Enhanced security with full EAP-FAST support
	Middle CA Certificate Support		x	Enhanced security for networks utilizing middle certificates
	*FIPS 140-2 Support (SOM only)		x	FIPS 140-2 support (SoM Only)
	Configuration of Multiple phase2 Methods for EAP Authentication	x	x	Allows connections to radius server using unknown phase2 methods
	802.11 w/i/e	x	x	Added Security and QoS
REGULATORY	Future Regulatory Updates	x	x	Ensures regulatory compliance for the life of the radio
	*Adaptive Worldwide Mode		x	Allows the customer to globally ship with 1 SKU and optimizes radio's power output in "Worldwide Mode" per regulatory domain
	Antenna Gain Adjustment	x	x	Allows a reduction in the radio's transmit power to allow customers to use antennas other than those on Laird's certified antennas list
	*Custom Power Tables	x	x	Allows generation of power tables for uncertified countries to meet regulatory requirements for customer devices
CONNECTIVITY	SISO	x	x	Single Antenna Support – for customers who want to run the 60 series with a single antenna
	BT Wi-Fi Co-existence MIMO	x	x	Optimizes connectivity when Wi-Fi and Bluetooth operate simultaneously
	SoftAP Mode	>12 clients	>50 clients	Allows radio to operate like an access point
	Wi-Fi Direct	x	x	Allows two clients to connect without an AP (update for Ad-Hoc)
	Concurrent AP/STA Mode	x	x	Allows the radio to operate like an access point while maintaining a client connection to another AP
	Multiple BSSID Mode		x	Allows the radio to support multiple BSSID's in AP mode
	Ad-hoc Support	x	x	Point-to-point communications
POWER MGMT	Wake-on-Wireless (Wi-Fi [SDIO]/BT [UART])		x	Allows the customer to keep a device asleep until it receives an intended packet. This reduces overall power consumption
	IEEE_PS/Deep Sleep (Reduced current consumption)	x	x	Reduces power consumption when the radio sleeps
	Directed Multicast Support		x	Allows client to sleep for longer, extending the battery life
SPECIAL FEATURES	Monitor Mode		x	Connected to an AP, collects all wireless traffic between radio and AP
	*Promiscuous Mode		x	Not connected to an AP, captures all wireless traffic from everything on a given channel

* Feature is currently in development

ORDERING INFORMATION

Part	Description
930-00003	Summit Stack (sold as separate item with Sterling Hardware, one-time per module license)