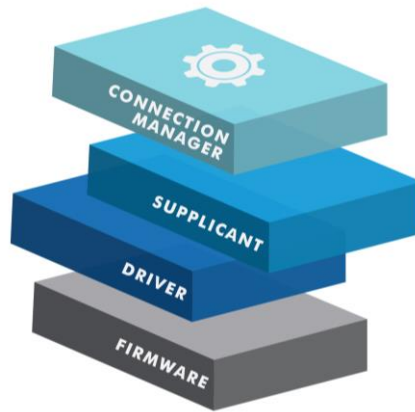


### HARNESS THE FULL POTENTIAL OF LAIRD'S 60 SERIES MODULES.



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's 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 & ROAMING | *802.11k/v   |          | x      | Shares client information about the network with the infrastructure to help make better roaming decisions                    |
|                             | *802.11r (Optimized)                               |          | x      | Enhancements and fixes to 802.11r to improve fast roaming  |
|                             | Channel Masking                                    |          | x      | Decreases 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 & 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 startup 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      | Configurable parameter to define the authentication timeout. This is helpful for customers with 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)  |
|                             | 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      | Modifies the radio's transmit per to allow customers to use different antennas than what is on our certified antennas list   |
| 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 (up to 12 clients)                     | x        | x      | Allows radio to operate like an access point (up-to 12 client connections)   |
|                             | 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                         |
|                             | SoftAP mode (>12 clients)                          |          | x      | Allows radio to operate like an access point (unlimited client connections)  |
|                             | Multiple BSSID mode                                |          | x      | Allows the radio to support multiple BSSID's in AP mode  |
|                             | Ad-hoc support                                     | x        | x      | Point-to-point communications  |
|                             | *LTE co-existence                                  | x        | x      | Allows the radio to communicate with LTE radios to reduce disconnects  |
| POWER MGMT                  | Wake-on-Wireless (WiFi [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  |
| 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                                     |
|                             | Temperature  |          | x      | Exposes the ambient temperature of the radio   |

\* Feature is currently in development

## ORDERING INFORMATION

| Part     | Description  |
|----------|--|
| 930-0003 | Summit Stack (sold as separate item with Sterling Hardware, one-time per module license) |