Wi-Fi Line Card

Laird Connectivity offers certified Wi-Fi modules that enable secure and reliable wireless connectivity, even in the harshest environments. Our modules are ideal for robust, business-critical connectivity in medical, industrial, and commercial settings where excellent RF performance, lower power consumption, simplified application development, and fast time to market are a must.

Laird™ CONNECTIVITY

Modules not actual size.

	Sona™ NX611 (Coming Soon)	Sona™ IF573	60 Series
Chipset	NXP IW611	Infineon AIROC™ CYW55573	NXP 88W8997
802.11 Standards	1X1 802.11a/b/g/n/ac/ax (WI-FI 6)	2x2 802.11a/b/g/n/ac/ax (Wi-Fi 6E)	802.11 a/b/g/n/ac (2.4 and 5 GHz)
BT Standards	Bluetooth 5.3 - Dual Mode Classic (EDR) & BLE	Bluetooth 5.4 - Dual Mode Classic (EDR) & BLE	Bluetooth 5.1 - Dual Mode Classic (EDR) & BLE
Type	SIP M.2 1216 SMT M.2 2230 E-Key Module	M.2 1318 SMT M.2 2230 E-Key Module	SiP Package, M.2 2230-E Module with USB, SDIO, and PCIE variants
Size (mm)	11 mm x 11 mm (SIP) 12 mm x 16 mm (M.2 1420 SMT Module) 22 mm x 30 mm (M.2 E-Key Module)	13 x 18 x 0.43 (M.2 1318) 22 x 30 x 2.7 (M.2 2230 E-Key)	14 x 13 mm (SIP) 22 x 30 x 3.3 mm (M.2 E-Key)
Tx Power (dBm)	TBD	Up to +18 dBm	Wi-Fi: 10 to 18 BT/BLE: 7 to 10
Rx Sensitivity (dBm)	TBD	TBD	Wi-Fi: -55 to -95 BT/BLE: -88 to -95
Temp. Range	-40°C to +85°C	-40°C to +85°C	-30°C to +85°C
OS Support	Android, Linux	Android, Linux	Android, Linux
Wi-Fi Security	WPA2-Personal, WPA2-Enterprise, WPA3-Personal, WPA3-Enterprise	WPA2-Personal, WPA2-Enterprise, WPA3-Personal, WPA3-Enterprise	WPA2-Personal, WPA2-Enterprise, WPA3-Personal, WPA3-Enterprise
Certifications	FCC, IC, CE, UKCA, RCM, MIC Bluetooth SIG	FCC, IC, CE, UKCA, MIC, RCM, Bluetooth SIG	FCC, IC, CE, UKCA, MIC, AU/NZ, KCC, RCM, Bluetooth SIG
Board Support Package	Kernel Backports, NetworkManager, Summit Supplicant — broad kernel, BSP, and MPU compatibility.	Kernel Backports, NetworkManager, Summit Supplicant — broad kernel, BSP, and MPU compatibility.	Kernel Backports, NetworkManager, Summit Supplicant and Yocto layer for Linux — broad kernel, BSP, and MPU compatibility.

- Designed for Mission Critical applications
- 'Always-On Connectivity' through advanced software
- Performance in harsh RF environments
- Multi-OS (Android/Linux)

- Enterprise Security
- Fast scanning & roaming
- Industry-leading Support & Extended Warranty

- Designed for **Fast Time-to-Market**
- Broad Certifications
- Innovative Development Tools & Resources
- Industry-leading Design Support

SUMMIT SUITE
SECURITY SOLUTIONS

Simplify the process of protecting your devices with our industry- leading hardware, multiple layers of security software and enterprise connectivity, all from one partner.

Secure Connectivity Stack

FIPS-Validated Cryptographic Modules

FIPS 140-2 VALIDATED
FIPS 140-3 VALIDATED

Chain of Trust: Complete root of trust architecture

Industry-leading CVE Monitoring and Remediation

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Modules not actual size.

	Sterling-LWB5+	Sterling-LWB+	Sterling-EWB
Chipset	Infineon CYW4373E	Infineon CYW43439	Infineon CYW4343W + STM32F412 Cortex M4 MCU
802.11 Standards	802.11a/b/g/n/ac (2.4 and 5 GHz)	802.11a/b/g/n (2.4 GHz)	802.11 b/g/n
BT Standards	Bluetooth 5.2 - Dual Mode Classic (EDR) & BLE	Bluetooth 5.2 - Dual Mode Classic (EDR) & BLE	Bluetooth 5.1 - Dual Mode Classic (EDR) & BLE
Type	Surface Mount Module, M.2 2230 E-Key, USB-A Dongle	SiP Package, Surface Mount Module, M.2 2230 E-Key	SiP Package or Surface Mount Module
Size (mm)	12 x 17 x 2.2 mm (SMT PCB) 22 x 30 x 2.9 mm (M.2 E-Key) 17.5 x 47 x 11.7 mm (USB)	12 x 12 x 3 mm (SiP) 21 x 15 x 4 mm (PCB) 22 x 30 x 2.3 (M.2 PCB)	10 x 10 mm (SIP) 16 x 21 mm (PCB)
Tx Power (dBm)	+ 18 dBm (maximum)	+ 18 dBm (maximum)	Wi-Fi: 12.5 to 17.5 BT/BLE: 4 to 8.5
Rx Sensitivity (dBm)	Wi-Fi: -96 BT/BLE: -94	Wi-Fi: -89 to -94 BT/BLE: -83 to -91	Wi-Fi: -72 to -88 BT/BLE: -87 to -94
Temp. Range	-40°C to +85°C	-40°C to +85°C	-40° to +85° C
OS Support	Android, Linux, RTOS	Android, Linux, RTOS	On-board RTOS with WICED
Wi-Fi Security	WPA2-Personal, WPA2-Enterprise, WPA3-Personal, WPA3-Enterprise	WPA2-Personal, PA2-Enterprise, WPA3-Personal, WPA3-Enterprise	WPA2-Personal
Certifications	FCC, IC, CE, UKCA, MIC, KCC, TW, AUS, BR, Bluetooth SIG	FCC, IC, CE, UKCA, MIC, KCC, RCM, BR, Bluetooth SIG	FCC, IC, CE, UKCA, MIC, RCM, Bluetooth SIG
Board Support Package	Kernel Backports, NetworkManager, and Yocto layer for Linux ensures broad kernel, BSP, and MPU compatibility.	Kernel Backports, NetworkManager, and Yocto layer for Linux ensures broad kernel, BSP, and MPU compatibility.	WICED SDK and AT Command Set

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