

# 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.



## Enterprise Modules



**Better Performance with the Summit Stack**  
Custom Firmware,  
Custom Supplicant,  
Connection Manager,  
And Much More.



## Professional Modules

	60-SIPT	60-2230C	60 Series SOM	Sterling-LWB	Sterling-LWB5	Sterling-EWB
<b>Chipset</b>	Marvell 88W8997	Marvell 88W8997	Marvell 88W8997 Atmel ATSAMA5D36	Cypress CYW4343W	Cypress CYW43353	Cypress CYW4343W + STM32F412 Cortex M4 MCU
<b>802.11 Standards</b>	802.11 a/b/g/n/ac (2.4 and 5 GHz)	802.11 a/b/g/n/ac (2.4 and 5 GHz)	802.11 a/b/g/n/ac (2.4 and 5 GHz)	802.11 b/g/n (2.4 GHz)	802.11 a/b/g/n/ac (2.4 and 5 GHz)	802.11 b/g/n
<b>BT Standards</b>	Dual-Mode Bluetooth v5.1	Dual-Mode Bluetooth v5.1	Dual-Mode Bluetooth v5.1	Classic Bluetooth and Dual-Mode BLE v4.2	Classic Bluetooth and Dual-Mode BLE v4.2	Bluetooth v5.1 BR/DR/LE
<b>Type</b>	SiP Package	M.2 2230-E Module with USB, SDIO, and PCIe variants	Complete System on Module w/ Linux OS and 500 MHz ARM A5 processor	SiP Package or Surface Mount Module	SiP Package or Surface Mount Module	SiP Package or Surface Mount Module
<b>Size (mm)</b>	14 x 13	30 x 22	30 x 30	10 x 10 (SiP) 15.5 x 21 (module)	10 x 10 (SiP) 21 x 15.5 (module)	10 x 10 (SiP) 16 x 21 (module)
<b>Transmit Power</b>	Wi-Fi: 10 to 18 dBm BT/BLE: 7 to 10 dBm	Wi-Fi: 10 to 18 dBm BT/BLE: 7 to 10 dBm	Wi-Fi: 10 to 18 dBm BT/BLE: 7 to 10 dBm	Wi-Fi: 12.5 to 17.5 dBm BT/BLE: 4 to 8.5 dBm	Wi-Fi: 11 to 16 dBm BT/BLE: 6 to 8 dBm	Wi-Fi: 12.5 to 17.5 dBm BT/BLE: 4 to 8.5 dBm
<b>Receiver Sensitivity</b>	Wi-Fi: -55 to -95 dBm BT/BLE: -88 to -95 dBm	Wi-Fi: -55 to -95 dBm BT/BLE: -88 to -95 dBm	Wi-Fi: -55 to -95 dBm BT/BLE: -88 to -95 dBm	Wi-Fi: -72 to -88 dBm BT/BLE: -87 to -94 dBm	Wi-Fi: -71 to -87 dBm BT/BLE: -84.5 to -92 dBm	Wi-Fi: -72 to -88 dBm BT/BLE: -87 to -94 dBm
<b>Temperature Range</b>	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40° to +85° C
<b>Operating Systems</b>	Android, Linux	Android, Linux	Onboard Linux OS and MPU	Android, Linux	Android, Linux	On-board RTOS with WICED
<b>Security</b>	WEP, WPA, WPA2	WEP, WPA, WPA2	WEP, WPA, WPA2	WEP, WPA, WPA2	WEP, WPA, WPA2	WEP, WPA, WPA2
<b>Encryption</b>	WEP, TKIP, AES (full EAP type and certificate support)	WEP, TKIP, AES (full EAP type and certificate support)	WEP, TKIP, AES (full EAP type and certificate support)	TKIP, AES (EAP Authentication)	TKIP, AES	TKIP, AES
<b>Certifications</b>	FCC, IC, CE, Giteki, AU/NZ, KCC, RCM	FCC, IC, CE, Giteki, AU/NZ, KCC, RCM	FCC, IC, CE, Giteki, AU/NZ, KCC, RCM	FCC, IC, ETSI, Giteki, RCM	FCC, IC, ETSI, Giteki	FCC, IC, ETSI, Giteki, RCM
<b>Management</b>	Laird Connection Manager (LCM) and Software Developer's Kit	Laird Connection Manager (LCM) and Software Developer's Kit	Command Line browser-accessible Laird Connection Manager	Linux driver support, and Sterling-LWB for WICED reference platform	Direct driver support for Linux and SIG-certified Bluetooth driver	WICED SDK
	<ul style="list-style-type: none"> <li>Designed for Mission Critical applications</li> <li>'Always-On Connectivity' through advanced software</li> <li>Performance in harsh RF environments</li> </ul>			<ul style="list-style-type: none"> <li>Designed for <b>Fast Time-to-Market</b></li> <li>Broad Certifications</li> <li>Innovative Development Tools &amp; Resources</li> <li>Industry-leading Design Support</li> </ul>		

Modules shown  
are not actual size.