

Connectivity Solutions

Wi-Fi and Wi-Fi + Bluetooth Line Card



Laird's Connectivity Solutions offers certified wireless modules and accessories that enable secure, reliable wireless connectivity for mission-critical data even in the harshest RF environments. Our Wi-Fi, Bluetooth, BLE, LoRa, and proprietary ISM embedded modules enable robust, business-critical connectivity in medical, industrial, and commercial settings. In addition, our comprehensive IoT product development and EMC testing services improve your speed to market and let you focus on the unique needs of your customers. Laird Wi-Fi product solutions are comprised of two product categories: **Enterprise** and **Professional** modules.

ENTERPRISE MODULES

- Designed for **Mission Critical** applications
- 'Always-On Connectivity' through advanced software
- Performance in harsh RF environments
- Multi-OS Support (Windows/Android/Linux)
- Enterprise Security
- Fast scanning & roaming
- Industry-leading Support & Extended Warranty



PROFESSIONAL MODULES

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



	SSD50NBT	M2xx50NBT	MSD50NBT	WB50NBT	Sterling LWB	Sterling LWB5	TiWi-C-W
Chipset	QCA6004 and CSR(QCA)8811	QCA6004 and CSR(QCA)8811	QCA6004 and CSR(QCA)8811	QCA6004 and CSR(QCA)8811	BCM4343W	BCM43353	BCM4390
802.11 Standards	802.11 a/b/g/n (2.4 and 5 GHz)	802.11 a/b/g/n (2.4 and 5 GHz)	802.11 a/b/g/n (2.4 and 5 GHz)	802.11 a/b/g/n (2.4 and 5 GHz)	802.11 b/g/n (2.4 GHz)	802.11 ac (2.4 and 5 GHz)	802.11 b/g/n (2.4 GHz)
Bluetooth Standards	Dual-Mode BLE v4.0	Dual-Mode BLE v4.0	Dual-Mode BLE v4.0	Dual-Mode BLE v4.0	Dual-Mode BLE v4.1	Dual-Mode BLE v4.1	None
Type	SiP Package	M.2 2230-E Module with USB and SDIO variants	60-pin Molex connector with SDIO	Complete System on Module w/ Linux OS and 500MHz ARM A5 processor	SiP Package or Surface Mount Module	SiP Package or Surface Mount Module	SiP Package
Size	15 mm x 15 mm	30 mm x 22 mm	32 mm x 22 mm	37 mm x 37 mm	15.5 mm x 21 mm	15.5 mm x 21mm	10.5 mm x 10.5 mm
Transmit Power	Wi-Fi: 12 to 18 dBm BLE: 3 to 6 dBm	Wi-Fi: 12 to 18 dBm BLE: 3 to 6 dBm	Wi-Fi: 12 to 18 dBm BLE: 3 to 6 dBm	Wi-Fi: 12 to 18 dBm BLE: 3 to 6 dBm	Wi-Fi: 12.5 to 17.5 dBm BLE: 8.5 dBm	Wi-Fi: 9 to 13 dBm BLE: 6dBm	11 to 17 dBm
Receiver Sensitivity	Wi-Fi: -72 to -93 dBm BLE: -76 to -87 dBm	Wi-Fi: -72 to -93 dBm BLE: -76 to -87 dBm	Wi-Fi: -72 to -93 dBm BLE: -76 to -87 dBm	Wi-Fi: -72 to -93 dBm BLE: -76 to -87 dBm	Wi-Fi: -72 to -88 dBm BLE: -90 dBm	Wi-Fi: -64 to -88 dBm BLE: -91 dBm	-70 to -87 dBm
Temperature Range	-30°C to 85°C (-22°F to 185°F)	-30°C to 85°C (-22°F to 185°F)	-30°C to 85°C (-22°F to 185°F)	-30°C to 85°C (-22°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
Operating Systems	Android, Linux, Windows Mobile and CE	Android, Linux, Windows Mobile and CE	Android, Linux, Windows Mobile and CE	Standalone onboard Linux OS with onboard processor supports any connectable device.	Linux	Linux	Standalone onboard ARMCM3 or external host
Security	WEP, WPA, WPA2, TKIP, AES, full EAP type and certificate support	WEP, WPA, WPA2, TKIP, AES, full EAP type and certificate support	WEP, WPA, WPA2, TKIP, AES, full EAP type and certificate support	WEP, WPA, WPA2, TKIP, AES, full EAP type and certificate support	WEP, WPA, WPA2, TKIP, AES	WEP, WPA, WPA2, TKIP, AES	WEP, WPA Personal, WPA2 Personal
Certifications	FCC, IC, ETSI	FCC, IC, ETSI	FCC, IC, ETSI	FCC, IC, ETSI	FCC, IC, ETSI, Giteki, RCM	FCC, IC, ETSI, Giteki, RCM	FCC, IC, ETSI
Management	Laird Connection Manager (LCM) and Software Developer's Kit	Laird Connection Manager (LCM) and Software Developer's Kit	Laird Connection Manager (LCM) and Software Developer's Kit	Command Line Interface and/or browser-accessible Laird Connection Manager	Linux driver support, and Sterling-LWB for WICED reference platform	Linux driver support	Pre-integrated TiWiConnect Cloud agent

Modules not shown at actual size. Full list of all available modules at www.lairdtech.com/connectivity-solutions

To learn more, visit www.lairdtech.com/connectivity-solutions or contact us at CS-Sales@lairdtech.com