



# Infineon AIROC™ Wi-Fi and Bluetooth® IoT partner module selector guide

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# Infineon AIROC™ Wi-Fi and Bluetooth® wireless connectivity

Delivering differentiated capabilities purpose-built for the IoT

Industry's broadest portfolio of Wi-Fi and Wi-Fi + Bluetooth® combo devices



- Infineon has the ideal Wi-Fi solution for any application providing both single- and dual-band 802.11n/ac/ax SISO and MIMO devices
- Infineon provides Wi-Fi + Bluetooth® combo chipsets – integrating our world-class Wi-Fi with powerful Bluetooth®/ Bluetooth® Low Energy to ease onboarding of cloud-connected IoT devices via a mobile app
- Infineon provides AIROC™ Wi-Fi connectivity processors and PSoC™ Bluetooth® MCUs with Bluetooth® Low Energy



### Reliable

- More than 1 billion Wi-Fi devices in the field
- High-performance RF architecture provides longer range and better interference rejection



### Low power

- Ultra low power – very low sleep, transmit, and receive current
- Continuous improvements to battery life via a unique visibility into real-world power consumption



### Secure

- Most widely vetted Wi-Fi / Bluetooth® devices on the market, with security researchers extensively focused on Infineon
- Deep domain knowledge and processes to help customers secure products throughout the lifecycle



### Infineon wireless module partner ecosystem

Our global partner ecosystem enables development of IoT applications on time, on budget, and with minimized risk

- Hardware** – Avoid complicated and costly chip-down designs with a pre-built wireless module providing multiple antenna options and services
- Software** – Take advantage of pre-configured connectivity software for common MPUs, operating systems, and development tools
- Certifications** – Don't worry about multiple global regulatory bodies with full modular and reference-certified RF modules (CE, IC, FCC, etc.)
- Support** – Get to production with partner support and services including antenna and plastics design, EMC testing, and more



## Infineon IoT software solutions

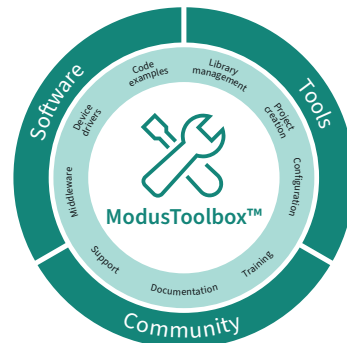


Infineon provides reliable and consistently updated software development platforms for flexible and rapid development of your connected product.

### Solutions for RTOS designs

Infineon delivers compute, connectivity, and HMI capabilities in a single unified platform: The ModusToolbox™ software environment

- ModusToolbox™ is a set of multi-platform tools and a suite of middleware libraries enabling industry-leading feature-sets like CAPSENSE™ capacitive-sensing, mesh, and system power optimization.
- Enables an immersive development experience for Infineon MCU and wireless devices. You can use our Eclipse IDE for ModusToolbox™, or 3rd-party IDEs such as Visual Studio Code, IAR Embedded Workbench, and Keil µVision.
- Extensive support for 3rd-party cloud ecosystems including our own cloud management solution using the ultra-low-power AIROC™ Wi-Fi connectivity processors



### Solutions for Linux/Android designs

Delivering integrated wireless products for Linux and Android designs. Infineon partners with the open-source community to provide quality and secure connectivity.

- ModusToolbox™ Enabling a broad set of Wi-Fi and Bluetooth®/ Bluetooth® LE advanced feature sets for a wide variety of designs
- Supporting the latest Linux and Android distributions along with backward-compatibility for previous versions
- Infineon RF and regulatory tools bring your Linux- or Android-based prototype to production faster than ever



### Wi-Fi 6/6E (802.11ax) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Azurewave	AW-XM650	CYW55512	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	12 x 12	TBD	-40°C to +85°C	LGA	via RF pad	SDIO	UART, PCM
Azurewave	AW-XM606	CYW55513	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	12 x 12	TBD	-40°C to +85°C	LGA	via RF pad	SDIO	UART, PCM
Azurewave	AW-XB325MA-PUR	CYW55571	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	22 x 30 x 2.06	FCC	-40°C to +85°C	SiP on FR4	Ext. Antenna by MHF4 connectors	PCIe	UART, I²S, PCM
Azurewave	AW-XB325MA-SUR	CYW55571	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	22 x 30 x 2.06	FCC	-40°C to +85°C	SiP on FR4	Ext. Antenna by MHF4 connectors	SDIO	UART, I²S, PCM
Azurewave	AW-XH325-PUR	CYW55571	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	10 x 10	FCC	-40°C to +85°C	SiP	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XH325-SUR	CYW55571	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	10 x 10	FCC	-40°C to +85°C	SiP	via RF pad	SDIO	UART, I²S, PCM
Azurewave	AW-XM632-PUR	CYW55571	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	12 x 12	TBD	-40°C to +85°C	LGA	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XM632-SUR	CYW55571	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	12 x 12	TBD	-40°C to +85°C	LGA	via RF pad	SDIO	UART, I²S, PCM
Azurewave	AW-XB327MA-PUR	CYW55572	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	22 x 30 x 2.06	FCC	-40°C to +85°C	SiP on FR4	Ext. Antenna by MHF4 connectors	PCIe	UART, I²S, PCM
Azurewave	AW-XB327MA-SUR	CYW55572	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	22 x 30 x 2.06	FCC	-40°C to +85°C	SiP on FR4	Ext. Antenna by MHF4 connectors	SDIO	UART, I²S, PCM
Azurewave	AW-XH327-PUR	CYW55572	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	10 x 10	FCC	-40°C to +85°C	SiP	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XH327-SUR	CYW55572	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	10 x 10	FCC	-40°C to +85°C	SiP	via RF pad	SDIO	UART, I²S, PCM
Azurewave	AW-XM612-PUR	CYW55572	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	13 x 15	TBD	-40°C to +85°C	LGA	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XM612-SUR	CYW55572	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	13 x 15	TBD	-40°C to +85°C	LGA	via RF pad	SDIO	UART, I²S, PCM
Azurewave	AW-XB583MA-PUR	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	22 x 30 x 2.06	FCC	-40°C to +85°C	SiP on FR4	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XB583MA-SUR	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.2	2T2R	22 x 30 x 2.06	FCC	-40°C to +85°C	SiP on FR4	via RF pad	SDIO	UART, I²S, PCM
Azurewave	AW-XH323-PUR	CYW55573	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	10 x 10 x 1.26	FCC	-40°C to +85°C	SiP	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XH323-SUR	CYW55573	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	10 x 10	FCC	-40°C to +85°C	SiP	via RF pad	SDIO	UART, I²S, PCM
Azurewave	AW-XM643-PUR	CYW55573	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	13 x 15	TBD	-40°C to +85°C	LGA	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XM643-SUR	CYW55573	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	13 x 15	TBD	-40°C to +85°C	LGA	via RF pad	SDIO	UART, I²S, PCM
Azurewave	AW-XH328-PUR	CYW88570D	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	10 x 10 x 1.26	TBD	-40°C to +85°C	SiP	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XH328-SUR	CYW88570D	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.2	2T2R	10 x 10 x 1.26	TBD	-40°C to +85°C	SiP	via RF pad	SDIO	UART, I²S, PCM

## Wi-Fi 6/6E (802.11ax) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Azurewave	AW-XHA01	CYW89570XR	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R+ RSDB	19 x 13 x 1.26	TBD	-40°C to +85°C	SiP	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XH326-PUR	CYW88570C	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	10 x 10 x 1.26	TBD	-40°C to +85°C	SiP	via RF pad	PCIe	UART, I²S, PCM
Azurewave	AW-XH326-SUR	CYW88570C	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	2T2R	10 x 10 x 1.26	TBD	-40°C to +85°C	SiP	via RF pad	SDIO	UART, I²S, PCM
Azurewave	AW-CU640	CYW55913	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	25 x 16	TBD	-40°C to +85°C	LGA	PCB Antenna	SDIO	UART, I²S, PCM
Azurewave	AW-CU642	CYW55912	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	25 x 16	TBD	-40°C to +85°C	LGA	PCB Antenna	SDIO	UART, I²S, PCM
Iton	IW5572-50B1	CYW55572	2.4/5 GHz	Bluetooth® LE 5.3	2T2R	15 x 13	FCC, CE, SRRC, ROHS, BQB	-40°C to +85°C	PCB Module	External Antenna	SDIO	UART, I²S, PCM
Ezurio	453-00118R	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	2T2R	13 x 18 x 1.9	FCC, ISCED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1318 SMT	RF Trace Antenna (Tape & Reel)	SDIO, PCIe	UART, I²S, PCM
Ezurio	453-00117R	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	2T2R	13 x 18 x 1.9	FCC, ISCED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1318 SMT	MHF4 Antenna (Tape & Reel)	SDIO, PCIe	UART, I²S, PCM
Ezurio	453-00118C	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	2T2R	13 x 18 x 1.9	FCC, ISCED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1318 SMT	RF Trace Antenna (Cut Tape)	SDIO, PCIe	UART, I²S, PCM
Ezurio	453-00117C	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	2T2R	13 x 18 x 1.9	FCC, ISCED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1318 SMT	MHF4 Antenna (Cut Tape)	SDIO, PCIe	UART, I²S, PCM
Ezurio	453-00119	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	2T2R	22 x 30 x 2.7	FCC, ISCED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 2230 Plug In Card	MHF4 Antenna (Carton)	SDIO, PCIe	UART, I²S, PCM
Ezurio	453-00120	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	2T2R	22 x 30 x 2.7	FCC, ISCED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 2230 Plug In Card	MHF4 Antenna (Carton)	SDIO, PCIe	UART, I²S, PCM

Wi-Fi 6/6E (802.11ax) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Ezurio	453-00185R	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	12 x 16 x 1.9	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1216 SMT	RF Trace Antenna (Tape & Reel)	SDIO, SPI	UART, SDIO, SPI
Ezurio	453-00184R	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	12 x 16 x 1.9	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1216 SMT	MHF4 Antenna (Tape & Reel)	SDIO, SPI	UART, SDIO, SPI
Ezurio	453-00185C	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	12 x 16 x 1.9	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1216 SMT	RF Trace Antenna (Cut Tape)	SDIO, SPI	UART, SDIO, SPI
Ezurio	453-00184C	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	12 x 16 x 1.9	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1216 SMT	MHF4 Antenna (Cut Tape)	SDIO, SPI	UART, SDIO, SPI
Ezurio	453-00193R	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	12 x 16 x 1.9	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1216 SMT	RF Trace Antenna (Cut Tape)	SDIO, SPI	UART, SDIO, SPI
Ezurio	453-00194R	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	12 x 16 x 1.9	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1216 SMT	MHF4 Antenna (Tape & Reel)	SDIO, SPI	UART, SDIO, SPI
Ezurio	453-00193C	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	12 x 16 x 1.9	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1216 SMT	RF Trace Antenna (Cut Tape)	SDIO, SPI	UART, SDIO, SPI
Ezurio	453-00194C	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	12 x 16 x 1.9	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG	-40°C to +85°C	M.2 1216 SMT	MHF4 Antenna (Cut Tape)	SDIO, SPI	UART, SDIO, SPI
Ezurio	453-00186	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	22 x 30 x 2.7	FCC, ISSED, CE, UKCA, MIC, RCM, Bluetooth® SIG	-40°C to +85°C	M.2 2230 Plug In Card	MHF4 Antenna (Carton)	SDIO	UART, I²S, PCM
Ezurio	453-00195	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	22 x 30 x 2.7	FCC, ISSED, CE, UKCA, MIC, RCM, Bluetooth® SIG	-40°C to +85°C	M.2 2230 Plug In Card	MHF4 Antenna (Carton)	SDIO	UART, I²S, PCM
Murata	LBEE5XV2EA-802	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	2T1R	12.5 x 9.4 x 1.2	FCC, IC, CE, TELEC	-40°C to +85°C	Type 2EA	Dipole ANT, monopole Trace ANT (Planning)	SDIO, PCIe	UART, I²S, PCM
Murata	LBEE5XV2EC-001	CYW55571	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	12.5 x 9.4 x 1.2	FCC, IC, CE, TELEC	-40°C to +85°C	Type 2EC	Dipole ANT, monopole Trace ANT (Planning)	SDIO, PCIe	UART, I²S, PCM

## Wi-Fi 6/6E (802.11ax) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Murata	LBEE5XV2FY-922	CYW55513	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	7.9 x 7.3 x 1.1	FCC, IC, CE, TELEC (Planning)	-40°C to +85°C	Type 2FY	Dipole ANT, monopole Trace ANT (Planning)	SDIO	UART, I²S, PCM
Murata	LBEE5XV2GY-001	CYW55512	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	7.9 x 7.3 x 1.1	FCC, IC, CE, TELEC (Planning)	-40°C to +85°C	Type 2GY	Dipole ANT, monopole Trace ANT (Planning)	SDIO	UART, I²S, PCM
u-blox	MAYA-W330	CYW55511	2.4 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 14	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG (in dev)	-40°C to +85°C	SMD	U.FL connectors	SDIO, GSPI	UART, SDIO, SPI
u-blox	MAYA-W331	CYW55511	2.4 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 14	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG (in dev)	-40°C to +85°C	SMD	2 Antenna pins	SDIO, GSPI	UART, SDIO, SPI
u-blox	MAYA-W336	CYW55511	2.4 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 14	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG (in dev)	-40°C to +85°C	SMD	PCB Antenna	SDIO, GSPI	UART, SDIO, SPI
u-blox	MAYA-W360	CYW55512	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 14	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG (in dev)	-40°C to +85°C	SMD	U.FL connectors	SDIO, GSPI	UART, SDIO, SPI
u-blox	MAYA-W361	CYW55512	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 14	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG (in dev)	-40°C to +85°C	SMD	2 Antenna pins	SDIO, GSPI	UART, SDIO, SPI
u-blox	MAYA-W366	CYW55512	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 14	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG (in dev)	-40°C to +85°C	SMD	PCB Antenna	SDIO, GSPI	UART, SDIO, SPI
u-blox	MAYA-W380	CYW55513	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 14	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG (in dev)	-40°C to +85°C	SMD	U.FL connectors	SDIO, GSPI	UART, SDIO, SPI
u-blox	MAYA-W381	CYW55513	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 14	FCC, ISSED, CE, UKCA, MIC, & Bluetooth® SIG (in dev)	-40°C to +85°C	SMD	2 Antenna pins	SDIO, GSPI	UART, SDIO, SPI

## Wi-Fi 6/6E (802.11ax) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
u-blox	MAYA-W386	CYW55513	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 14	FCC,ISED, CE, UKCA, MIC, & Bluetooth® SIG (in dev)	-40°C to +85°C	SMD	PCB Antenna	SDIO, GSPI	UART, SDIO, SPI
USI	WM-BAX-CYW-51	CYW55572	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.4	2T2R	11 x 11 x 1.2	N/A	-40°C to +85°C	Molding SIP	N/A	SDIO	UART
USI	WM-BAX-CYW-61	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	2T2R	11 x 11 x 1.2	N/A	-40°C to +85°C	Molding SIP	N/A	SDIO	UART
USI	WM-BAX-CYW-65	CYW55573	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	8.6 x 8.1 x 1.1	N/A	-40°C to +85°C	Molding SIP	N/A	SDIO	UART
USI	WM-BAX-CYW- 65U	CYW55913	2.4/5/6 GHz	Bluetooth®/Bluetooth® LE 5.4	2T2R	8.6 x 8.1 x 1.1	N/A	-40°C to +85°C	Molding SIP	N/A	SDIO	Internal to M33 MCU



## Wi-Fi 5 (802.11ac) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Azurewave	AW-AM617	CYW43022	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	12 x 12 x 1.75	CE, FCC, IC	-20°C to +70°C	LGA	via RF pad	SDIO	UART, PCM
Azurewave	AW-CM467-SUR-I	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 12 x 1.65	CE, FCC, IC, NCC, Japan, AU, NZ, CN	-40°C to +85°C	LGA	via RF pad	SDIO	UART, PCM
Azurewave	AW-CM467-USB-I	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 12 x 1.65	CE, FCC, IC, NCC, Japan, AU, NZ, CN	-40°C to +85°C	LGA	via RF pad	USB	USB
Azurewave	AW-CM467-SUR	CYW4373I	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 12 x 1.65	CE, FCC, IC, NCC, Japan, AU, NZ, CN	-40°C to +85°C	LGA	via RF pad	SDIO	UART, PCM
Azurewave	AW-CM467-USB	CYW4373I	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 12 x 1.65	CE, FCC, IC, NCC, Japan, AU, NZ, CN	-20°C to +70°C	LGA	via RF pad	USB	USB
Azurewave	AW-CM555-SUR	CYW4373I	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 12 x 1.65	FCC, CE	-20°C to +70°C	LGA	via RF pad	SDIO	UART, PCM
Azurewave	AW-CM572	CYW54590	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.1	2T2R	13 x 15 x 1.95	TBD	-40°C to +85°C	LGA	via RF pad	SDIO	UART, PCM
Azurewave	AW-CM590	CYW54590	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.1	2T2R	13 x 15 x 1.95	TBD	-40°C to +85°C	LGA	via RF pad	PCIe	UART, PCM
Azurewave	AW-CB511NF	CYW54591	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.1	2T2R +RSDB	22 x 30 x 2.25	CE, FCC, IC, NCC, Japan, AU, NZ	-40°C to +85°C	M.2 2230	Ext. Antenna by MHF4 connectors	PCIe	UART, PCM
Azurewave	AW-CM572-RSDB	CYW54591	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.1	2T2R +RSDB	13 x 15 x 1.95	TBD	-40°C to +85°C	LGA	via RF pad	SDIO	UART, PCM
Azurewave	AW-CM590-RSDB	CYW54591	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.1	2T2R +RSDB	13 x 15 x 1.95	TBD	-40°C to +85°C	LGA	via RF pad	PCIe	UART, PCM
Azurewave	AW-CM605	CYW88373	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 12 x 1.65	N/A	-40°C to +85°C	LGA	via RF pad	SDIO	UART, I <sup>2</sup> S, PCM
Azurewave	AW-CMA02	CYW88373	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	22 x 22 x 2.30	TBD	-40°C to +85°C	LGA	via RF pad	PCIe	UART, I <sup>2</sup> S, PCM
Azurewave	AW-CM256SM	CYW43455	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	12 x 12 x 1.7	SRRC	-30°C to +85°C	Stamp LGA	via RF pad	SDIO	UART, I <sup>2</sup> S, PCM
Azurewave	AW-CM390SM	CYW43455	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	12 x 12 x 1.7	CE, FCC, IC, AU, NZ	-30°C to +85°C	Stamp LGA	via RF pad	SDIO	UART, I <sup>2</sup> S, PCM
Azurewave	AW-CH303	CYW43455	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	7.9 x 7.3 x 1.01	N/A	-30°C to +85°C	SiP	via RF pad	SDIO	UART, I <sup>2</sup> S, PCM

### Wi-Fi 5 (802.11ac) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Blue- tooth® Interface
INVENTEK (USA Company)	ISM54907-WBM-L170	CYW54907	2.4/5 GHz	Bluetooth®/Bluetooth® LE 4.2	1T1R	11 x 11 x .2	Certifications upon request	-40°C to +85°C	-	No Certified Antenna	UART, SPI, USB	-
Iton	CW2455-44	CYW43455	2.4GHz, 5GHz	Bluetooth® LE 5.3	1T1R	12 x 12	FCC, CE, SRRC, RoHS, BQB	-40°C to +85°C	PCB Module	External Antenna	SDIO	UART, PCM
Iton	IW4373-50B1	CYW4373	2.4GHz, 5GHz	Bluetooth® LE 5.4	1T1R	26 x 20	FCC, CE, SRRC, RoHS, BQB	-40°C to +85°C	PCB Module	External Antenna	SDIO	UART, PCM
Ezurio	453-00045C	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 17 x 2.2	FCC, ISED, CE, MIC, UKCA, KCC, TW, BR, CN, Bluetooth® SIG	-40°C to +85°C	-	Integrated Chip Antenna (Cut Tape)	UART, SDIO, USB	-
Ezurio	453-00045R	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 17 x 2.2	FCC, ISED, CE, MIC, UKCA, KCC, TW, BR, CN, Bluetooth® SIG	-40°C to +85°C	-	Integrated Chip Antenna (Cut Tape)	UART, SDIO, USB	-
Ezurio	453-00046C	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 17 x 2.2	FCC, ISED, CE, MIC, UKCA, KCC, TW, BR, CN, Bluetooth® SIG	-40°C to +85°C	-	MHF4 Antenna (Cut Tape)	UART, SDIO, USB	-
Ezurio	453-00046R	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 17 x 2.2	FCC, ISED, CE, MIC, UKCA, KCC, TW, BR, CN, Bluetooth® SIG	-40°C to +85°C	-	MHF4 (Tape & Reel)	UART, SDIO, USB	-
Ezurio	453-00047C	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 17 x 2.2	FCC, ISED, CE, MIC, UKCA, KCC, TW, BR, CN, Bluetooth® SIG	-40°C to +85°C	-	RF Trace Pin (Cut Tape)	UART, SDIO, USB	-
Ezurio	453-00047R	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 17 x 2.2	FCC, ISED, CE, MIC, UKCA, KCC, TW, BR, CN, Bluetooth® SIG	-40°C to +85°C	-	RF Trace Pin (Tape and Reel)	UART, SDIO, USB	-
Ezurio	453-00048	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	22 x 30 x 3.1	FCC, ISED, CE, MIC, UKCA, KCC, TW, BR, CN, Bluetooth® SIG	-40°C to +85°C	-	-	UART, SDIO	-
Ezurio	453-00049	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	22 x 30 x 3.1	FCC, ISED, CE, MIC, UKCA, KCC, TW, BR, CN, Bluetooth® SIG	-40°C to +85°C	-	-	USB	-
Ezurio	450-00137	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	17 x 47 x 11.7	FCC, ISED, CE, MIC, UKCA, KCC, TW, BR, CN, Bluetooth® SIG	-40°C to +85°C	-	Integrated Antenna	USB	-

## Wi-Fi 5 (802.11ac) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Lantronix	XPC270100B	CYW54907	2.4/5 GHz	Bluetooth®/Bluetooth® LE 4.2	1T1R	25 x 17	FCC, IC, CE	-40°C to +85°C	-	Dual U.FL	UART, SPI, SDIO, I²C, GPIO, USB, Ethernet	-
Lantronix	XPC270100S	CYW54907	2.4/5 GHz	Bluetooth®/Bluetooth® LE 4.2	1T1R	25 x 17	FCC, IC, CE	-40°C to +85°C	-	Dual U.FL	UART, SPI, SDIO, I²C, GPIO, USB, Ethernet	-
Lantronix	XPC270300B	CYW54907	2.4/5 GHz	Bluetooth®/Bluetooth® LE 4.2	1T1R	35 x 22	FCC, IC, CE	-40°C to +85°C	-	Dual U.FL	UART, SPI, SDIO, I²C, GPIO, USB, Ethernet	-
Lantronix	XPC270300S	CYW54907	2.4/5 GHz	Bluetooth®/Bluetooth® LE 4.2	1T1R	25 x 17	FCC, IC, CE	-40°C to +85°C	-	Dual U.FL	UART, SPI, SDIO, I²C, GPIO, USB, Ethernet	-
Murata	LBEE5PK2AE-564	CYW4373E	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	8.0 x 7.8 x 1.15	FCC, IC, CE, TELEC	-40°C to +85°C	Type 2AE	Dipole ANT, monopole Trace ANT	SDIO, USB	UART, USB
Murata	LBEE5PK2BC-771	CYW4373I	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	8.0 x 7.8 x 1.15	FCC, IC, CE, TELEC	-20°C to +70°C	Type 2BC	Dipole ANT, monopole Trace ANT	SDIO, USB	UART, USB
Murata	LBEE5XV1XA-540	CYW54591	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.1	2T2R +RSDB	11.4 x 8.9 x 1.4	FCC, IC, CE, TELEC	-40°C to +85°C	Type 1XA	Dipole ANT, monopole Trace ANT	PCIe	UART
Murata	LBEE5XV2BZ-883	CYW54590	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.1	2T1R	11.4 x 8.9 x 1.4	FCC, IC, CE, TELEC	-40°C to +85°C	Type 2BZ	Dipole ANT, monopole Trace ANT	SDIO	UART
Murata	LBEE5WV2GF-924	CYW43022	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	10 x 7.2 x 1,5	FCC, IC, CE, TELEC (Planning)	-20°C to +70°C	Type 2GF	Dipole ANT, monopole Trace ANT	SDIO	UART
Murata	LBEE59B1LV-278	CYW43012	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	10 x 7.2 x 1,4	FCC, IC, CE, TELEC	-20°C to +70°C	Type 1LV	monopole Trace ANT	SDIO	UART
Murata	LBWA1UZ1PS-241	CYW54907	2.4/5 GHz	N/A	1T1R	10 x 10 x 1.2	FCC, IC, CE, TELEC	-30°C to +50°C	Type 1PS	monopole Trace ANT	UART, SPI, I²C, I²S, USB, Ethernet	N/A

## Wi-Fi 5 (802.11ac) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Quectel	FC80A	CYW54591	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	13 x 15 x 2.2	China (SRRC), FCC, IC, CE, RCM, KC, JATE, TELEC	-40°C to +85°C	SMT	2 x 2	SDIO	UART, PCM
USI	WM-BAC-CYW-54	CYW4354	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.1	1T1R	9.8 x 9 x 1.1	N/A	-30°C to +85°C	Molding SIP	N/A	SDIO	UART
USI	WM-BAC-CYW-22	CYW43022	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	8.6 x 8.1 x 1.1	N/A	-20°C to +70°C	Molding SIP	N/A	UART, SDIO	UART
USI	WM-BAC-BM-25	CYW43455	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	9.5 x 15 x 1.8	CE, FCC, IC	-30°C to +85°C	Metal Shielding Can module	N/A	SDIO	UART
USI	WM-BAC-BM-28	CYW43455	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.3	1T1R	7.9 x 7.3 x 1.1	N/A	-30°C to +85°C	Molding SIP	N/A	SDIO	UART

## Wi-Fi 4 (802.11n) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Alinket	ALXC20B	CYW43012	2.4/5 GHz	Bluetooth®/Bluetooth® LE 4.2	1T1R	28 x 14.3 x 2.2	FCC, CE, RoHS	-30°C to +85°C	SiP on FR4	On-Board or External Antenna U.FL	SDIO	UART, SPI, I²S
Azurewave	AW-AH306	CYW43012	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	8.5 x 7 x 1	N/A	-20°C to +70°C	SiP	via RF pad	SDIO	UART, PCM
Azurewave	AW-AM497	CYW43012	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 12 x 1.75	FCC, IC, CE	-20°C to +70°C	LGA	via RF pad	SDIO	UART, PCM
Azurewave	AW-CU544-E-21	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	36 x 18 x 2.8	CE, FCC, IC, Japan	-30°C to +85°C	LGA	Ext. Antenna by UFL connectors	UART	UART
Azurewave	AW-CU544-E-22	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	36 x 18 x 2.8	CE, FCC, IC, Japan	-30°C to +85°C	LGA	Ext. Antenna by UFL connectors	UART	UART
Azurewave	AW-CU544-P-21	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	36 x 18 x 2.8	CE, FCC, IC, Japan	-30°C to +85°C	LGA	PCB Antenna	UART	UART
Azurewave	AW-CU544-P-22	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	36 x 18 x 2.8	CE, FCC, IC, Japan	-30°C to +85°C	LGA	PCB Antenna	UART	UART
Azurewave	AW-NM512	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 12 x 1.5	CE, FCC, IC, NCC	-30°C to +85°C	LGA	via RF pad	SDIO	UART, PCM
INVENTEK (USA Company)	ISM43439 -WBP-L151	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	10 x 10 x 1.2	Certification Pending	-40°C to +85°C	-	Chip or U.FL External Antenna	UART, SPI, I²S, PCM	-
INVENTEK (USA Company)	ISM43907R -WBM-L170	CYW43907	2.4/5 GHz	N/A	1T1R	11 x 11 x 1.2	Certifications upon request	-40°C to +85°C	-	No Certified Antenna	UART, SPI, I²S, I²C, Ethernet	N/A
INVENTEK (USA Company)	ISM43907 -WM-L170	CYW43907	2.4/5 GHz	N/A	1T1R	11 x 11 x 1.2	FCC, IC, CE, UKCA	-40°C to +85°C	-	No Certified Antenna	UART, SPI, I²S	N/A
INVENTEK (USA Company)	ISM4343-WBM -L151-U	CYW4343	2.4 GHz	Bluetooth®/Bluetooth® LE 5.1	1T1R	10 x 10 x 1.2	FCC, IC, CE, UKCA	-40°C to +85°C	-	Chip or U.FL External Antenna	UART, SPI, I²S, I²C, PCM, USB	-
INVENTEK (USA Company)	ISM4343- WBM-L151	CYW4343	2.4 GHz	Bluetooth®/Bluetooth® LE 5.1	1T1R	10 x 10 x 1.2	FCC, IC, CE, UKCA	-40°C to +85°C	-	Chip or U.FL External Antenna	UART, SPI, I²S, PCM	-
INVENTEK (USA Company)	ISM4343- WBM-L54	CYW4343	2.4 GHz	Bluetooth®/Bluetooth® LE 5.1	1T1R	34.22 x 14.7 x 2.0	FCC, IC, CE, UKCA	-40°C to +85°C	-	Chip or U.FL External Antenna	UART, SPI, I²S, PCM	-
INVENTEK (USA Company)	ISM43340-L77	CYW43340	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	13 x 14.4 x 2.4	FCC, IC, CE, UKCA	-40°C to +85°C	-	Chip or U.FL External Antenna	UART, SPI, SDIO, I²S, PCM	UART
INVENTEK (USA Company)	ISM43340- M4G-L44	CYW43340	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	34.22 x 14.7 x 2.3	FCC, IC, CE, UKCA	-40°C to +85°C	-	Chip or U.FL External Antenna	UART, SPI, I²S, PCM	-
INVENTEK (USA Company)	ISM43362- M3G-L44	CYW43362	2.4 GHz	N/A	1T1R	34.22 x 14.7 x 2.3	FCC, IC, CE, UKCA	-40°C to +85°C	-	Etch/U.FL External Antenna	UART, SPI, USB	N/A

Wi-Fi 4 (802.11n) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Iton	IW3012-44B1	CYW43012	2.4GHz, 5GHz	Bluetooth® LE 5.2	1T1R	12 x 12	FCC, CE, SRRC, ROHS, BQB	-40°C to +85°C	PCB Module	External Antenna	SDIO	UART, PCM
Ezurio	453-00083R	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	12 x 12 x 3	FCC, IC, CE, Giteki, RCM	-40°C to +85°C	SIP Module	RF Trace Antenna (Tape & Reel)	UART, SDIO, I²S	-
Ezurio	453-00084R	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	21 x 15 x 4	FCC, IC, CE, Giteki, RCM	-40°C to +85°C	PCB Module	MHF4 Antenna (Tape & Reel)	UART, SDIO, I²S	-
Ezurio	453-00085R	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	21 x 15 x 4	FCC, IC, CE, Giteki, RCM	-40°C to +85°C	PCB Module with Chip Antenna	Onboard Chip Antenna (Tape & Reel)	UART, SDIO, I²S	-
Ezurio	453-00141	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	22 x 30	FCC,ISED, CE, UKCA, MIC, KCC, BR & Bluetooth® SIG	-40°C to +85°C	M.2 Plug-in Card	MHF Antenna (Carton)	UART, SDIO, I²S	-
Lantronix	XPC250100B-02	CYW43907	2.4/5 GHz	N/A	1T1R	25 x 17	FCC, IC, CE, TELEC, SRRC	-40°C to +85°C	-	Dual U.FL	UART, SPI, SDIO, I²C, GPIO, USB, Ethernet	-
Lantronix	XPC250200B-02	CYW43907	2.4/5 GHz	N/A	1T1R	25 x 17	FCC, IC, CE, TELEC, SRRC	-40°C to +85°C	-	ON-MODULE ANT	UART, SPI, SDIO, I²C, GPIO, USB, Ethernet	-
Lantronix	XPC250300B-02	CYW43907	2.4/5 GHz	N/A	1T1R	25 x 17	FCC, IC, CE, TELEC, SRRC	-40°C to +85°C	-	Dual U.FL	UART, SPI, SDIO, I²C, GPIO, USB, Ethernet	-
Lantronix	XPC250400B-02	CYW43907	2.4/5 GHz	N/A	1T1R	25 x 17	FCC, IC, CE, TELEC, SRRC	-40°C to +85°C	-	ON-MODULE ANT	UART, SPI, SDIO, I²C, GPIO, USB, Ethernet	-

## Wi-Fi 4 (802.11n) + Dual-Mode Bluetooth® combo partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Wi-Fi Band(s)	Bluetooth® Specification	WLAN Stream	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Wi-Fi Interface	Bluetooth® Interface
Murata	LBEE5KL1YN-814	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	6.95 x 5.15 x 1.1	FCC, IC, CE, TELEC	-30°C to +70°C	Type 1YN	Dipole ANT, monopole Trace ANT	SDIO	UART, PCM
Murata	LBWA1UZ1GC-958	CYW43907	2.4/5 GHz	N/A	1T1R	10 x 10 x 1.2	FCC, IC, CE, TELEC	-30°C to +85°C	Type 1GC	monopole Trace ANT	UART, SPI, I²C, I²S, USB, Ethernet	N/A
Murata	LBWA1UZ1GC-901	CYW43907	2.4/5 GHz	N/A	1T1R	10 x 10 x 1.2	FCC, IC, CE, TELEC	-30°C to +85°C	Type 1GC	monopole Trace ANT	UART, SPI, I²C, I²S, USB, Ethernet	N/A
Murata	LBEE5PA1LD-005	CYW43438	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	8.9 x 7.8 x 1.2	FCC, IC, CE, TELEC	-40°C to +85°C	Type 1LD	UART, SPI, I²C	UART, SPI, I²C	UART, SPI, I²C
Quectel	FC909A	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	8.9 x 7.8 x 1.2	China (SRRC), FCC, CE, IC	-30°C to +85°C	SMT	1 x 1	SDIO	UART, PCM
USI	WM-BN-CYW-12	CYW43012	2.4 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	6.5 x 5.8 x 1.0	N/A	-20°C to +70°C	Molding SIP	N/A	SDIO	UART
USI	WM-BAC-CYW-50	CYW43012 + P62-1M	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	11 x 11 x 1.1	N/A	-20°C to +70°C	Molding SIP	N/A	SDIO	UART
USI	WM-CYW-26	CYW43439	2.4 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	9.5 x 15 x 1.8	N/A	-30°C to +70°C	Metal Shielding Can Module	N/A	SDIO	UART
USI	WM-BAN-BM-23	CYW43907	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.2	1T1R	11 x 11 x 1.1	N/A	-20°C to +70°C	Molding SIP	N/A	Internal to R4 MCU	N/A
USI	WM-BAN-BM-23	CYW43907 + CYW20707	2.4/5 GHz	Bluetooth®/Bluetooth® LE 5.4	1T1R	9.5 x 15 x 1.8	N/A	-30°C to +70°C	Molding SIP	N/A	Internal to R4 MCU	UART to 43907

### Bluetooth® & Bluetooth® LE (Dual-Mode) partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Bluetooth® Specification	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Bluetooth® Interface
Alinket	ALX420A	CYW20706	Bluetooth®/Bluetooth® LE 4.1	16 x 10 x 2.4	FCC, CE, RoHS	-30°C to +85°C	SIP on FR4	On-Board Antenna	UART, SPI, I²S
Alinket	ALX411	CYW20736	Bluetooth® LE 4.0	19 x 13.5 x 1.8	FCC, CE, RoHS	-30°C to +85°C	SIP Module	On-Board Antenna	UART, SPI
Azurewave	AW-BT315W	CYW20721	Bluetooth®/Bluetooth® LE 5.2	4 x 4 x 0.92	N/A	-30°C to +85°C	SIP	via RF pad	UART
Azurewave	AW-BTA03	CYW89072	Bluetooth®/Bluetooth® LE 5.2	10 x 10 x 2.4	N/A	-40°C to +85°C	LGA	via RF pad	UART, I²S, PCM
INVENTEK (USA Company)	ISM20706A2S	CYW20706	Bluetooth®/Bluetooth® LE 5.2	6.0 x 8.6 x 1.2	Certifications upon request	-40°C to +85°C	-	Embedded Antenna	SPI, I²C
INVENTEK (USA Company)	ISM20736S	CYW20736	Bluetooth®/Bluetooth® LE 5.2	6.5 x 6.5 x 1.18	FCC, IC, CE	-40°C to +85°C	-	TBD	SPI, I²C
Ezurio	Bluetooth®-850-SA	CYW20704	Bluetooth®/Bluetooth® LE 5.0	8.5 x 12 x 2.2	FCC, IC, CE, RCM, Giteki, KCC	-30°C to +85°C	-	Trace Pin Internal or external	USB, HCI, I²S, PCM, GPIO
Ezurio	Bluetooth®-850-ST	CYW20704	Bluetooth®/Bluetooth® LE 5.0	8.5 x 13 x 1.9	FCC, IC, CE, RCM, Giteki, KCC	-30°C to +85°C	-	Trace Pin Internal or external	USB, HCI, I²S, PCM, GPIO
Ezurio	Bluetooth®-851	CYW20704	Bluetooth®/Bluetooth® LE 5.0	43 x 16 x 11	FCC, IC, CE, RCM, Giteki, KCC	-30°C to +85°C	-	Trace Pin Internal or external	USB, HCI, I²S, PCM, GPIO
Ezurio	Bluetooth®-860-SA	CYW20704	Bluetooth®/Bluetooth® LE 5.0	8.5 x 12.85	FCC, IC, CE, RCM, Giteki, KCC	-30°C to +85°C	-	Trace Pin Internal or external	UART, HCI, I²S, PCM, GPIO
Ezurio	Bluetooth®-860-ST	CYW20704	Bluetooth®/Bluetooth® LE 5.0	8.5 x 12.85 x 1.9	FCC, IC, CE, RCM, Giteki, KCC	-30°C to +85°C	-	Trace Pin Internal or external	UART, HCI, I²S, PCM, GPIO
Ezurio	453-00171R	CYW20820	Bluetooth®/Bluetooth® LE 5.4	12.5 x 9.3 x 2.15	FCC, IC, CE, UKCE, RCM, MIC, KR, Bluetooth® SIG	-40°C to +85°C	PCB Module	-	UART, PCM, I²C, I²S, GPIO, SPI
Ezurio	453-00171C	CYW20820	Bluetooth®/Bluetooth® LE 5.4	12.5 x 9.3 x 2.15	FCC, IC, CE, UKCE, RCM, MIC, KR, Bluetooth® SIG	-40°C to +85°C	PCB Module	-	UART, PCM, I²C, I²S, GPIO, SPI
Ezurio	453-00172R	CYW20820	Bluetooth®/Bluetooth® LE 5.4	7.5 x 7.5 x 2.15	FCC, IC, CE, UKCE, RCM, MIC, KR, Bluetooth® SIG	-40°C to +85°C	PCB Module	-	UART, PCM, I²C, I²S, GPIO, SPI
Ezurio	453-00172C	CYW20820	Bluetooth®/Bluetooth® LE 5.4	7.5 x 7.5 x 2.15	FCC, IC, CE, UKCE, RCM, MIC, KR, Bluetooth® SIG	-40°C to +85°C	PCB Module	-	UART, PCM, I²C, I²S, GPIO, SPI
Ezurio	453-00185	CYW20820	Bluetooth®/Bluetooth® LE 5.4	50.74 x 18.39 x 11	FCC, IC, CE, UKCE, RCM, MIC, KR, Bluetooth® SIG	-40°C to +85°C	PCB Module	-	UART, PCM, I²C, I²S, GPIO, SPI



## Bluetooth® &amp; Bluetooth® LE (Dual-Mode) partner module portfolio

Partner	PN	Wi-Fi/ Bluetooth® PN	Bluetooth® Specification	Area (mm)	Regulatory	Op. Temp (°C)	Module Type	Antenna	Bluetooth® Interface
Murata	LBCA1KU1WA-427	CYW20721	Bluetooth®/Bluetooth® LE 5.1	5.1 x 5.9 x 1.1	FCC, IC, CE, TELEC	-30°C to +85°C	Type 1WA	monopole Trace ANT, chip ANT	UART, PCM, I²C, SPI, I²C
Pairlink	Dragon-B	CYW20706	Bluetooth®/Bluetooth® LE 5.2	11 x 16.8 x 2.6	BQB, MIC, FCC, IC, CE, RoHS	-30°C to +85°C	-	Chip Antenna	UART, PWM, MFi, I²S
Pairlink	Dragon-C	CYW20706	Bluetooth®/Bluetooth® LE 5.2	11 x 16.8 x 2.6	BQB, MIC, FCC, IC, CE, RoHS	-30°C to +85°C	-	IPEX Connector	UART, PWM, MFi, I²S
Pairlink	Tigerkin-B8	CYW20835	Bluetooth® LE 5.4	23.0 x 14.0 x 2.6	BQB, FCC, IC, CE, MIC, SRRC, RoHS	-30°C to +85°C	20-pad SMT	Chip Antenna	UART, SPI, I²C, PWM
Pairlink	Tigerkin-C8	CYW20835	Bluetooth® LE 5.4	23.0 x 14.0 x 2.6	BQB, FCC, IC, CE, MIC, SRRC, RoHS	-30°C to +85°C	20-pad SMT	IPEX Connector	UART, SPI, I²C, PWM
Pairlink	Pony-B	CYW20829	Bluetooth® LE 5.4	23.0 x 14.0 x 2.6	Ongoing	-30°C to +85°C	30-pad SMT	Chip Antenna	UART, SPI, I²C, PWM, CAN
Pairlink	Pony-C	CYW20829	Bluetooth® LE 5.4	23.0 x 14.0 x 2.6	Ongoing	-30°C to +85°C	30-pad SMT	IPEX Connector	UART, SPI, I²C, PWM, CAN

**Connectivity devices:**

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