






Wi-Fi and Bluetooth Modules



EmWicon Wi-Fi and Bluetooth module solutions provides AP module and Client module products. The products are applied for various Wi-Fi data network applications in railway, Kiosk multimedia display system, logistic data terminal center and Industrial 4.0 data network systems.

Model	WMX8202	WMX7205 / WMX7203	WMX7219	WMU721x	WMX7207 / WMX7206
Picture					
Form Factor	M.2 2230 Mini PCIe (Half/Full)	M.2 2230 Mini PCIe (Half/Full)	M.2 2230 Mini PCIe (Half/Full)	USB 3.0 / USB Type-A Pin Wafer / Pin Header	M.2 2230 Mini PCIe (Half/Full)
Specification	Wi-Fi 7 802.11be + BT 5.3	Wi-Fi 6E 802.11ax + BT 5.2	Wi-Fi 6E 802.11ax + BT 5.2	Wi-Fi 6E 802.11ax + BT 5.2	Wi-Fi 6E 802.11ax + BT 5.2
Antenna	2T2R	2T2R	2T2R	2T2R	2T2R
Chip Vendor	Qualcomm Atheros	Qualcomm Atheros	Realtek	Realtek	Realtek
Chip Part No.	WCN7851 QCA2076	WCN6856 QCA2066	RTL8852CE	RTL8852CU	RTL8852BE
Frequency	2.4G + 5G + 6G (DBS)	2.4G + 5G + 6G (DBS)	2.4G + 5G + 6G	2.4G + 5G + 6G	2.4G + 5G
Temperature Range	I-Temp	I-Temp	I-Temp	C-Temp	I-Temp

Model	JWW6051 / JWX6058	WMX6219 / WMX6218	WMU620x	WMX8402 / WMX8401	WMX7409 / WMX7408
Picture					
Form Factor	M.2 2230 Mini PCIe (Half)	M.2 2230 Mini PCIe (Half)	USB 2.0 / USB Type-A Pin Wafer / Pin Header	AP module Mini PCIe (Full)	AP module Mini PCIe (Full)
Specification	Wi-Fi 5 802.11ac + BT5.0	Wi-Fi 5 802.11ac + BT5.0	Wi-Fi 5 802.11ac + BT4.2	Wi-Fi 7 802.11be	Wi-Fi 6/6E 802.11ax
Antenna	2T2R	2T2R	2T2R	4T4R / 2T2R	2T2R
Chip Vendor	Qualcomm Atheros	Realtek	Realtek	Qualcomm Atheros	Celero
Chip Part No.	QCA6174A-5	RTL8822CE	RTL8822BU	QCN9274 QCN6274	CL8040 CL8046
Frequency	2.4G + 5G	2.4G + 5G	2.4G + 5G	2.4G + 5G (DBS) 5G - 6G (wide band)	2.4G + 5G (DBS) 5G + 6G (DBS)
Temperature Range	I-Temp	I-Temp	C-Temp	C/I-Temp	I-Temp