

Qualcomm® QCC7xx IoT Connectivity Comparison

Stay connected with industry-leading wireless communication solutions for the Internet of Things.



Features	Qualcomm® QCC711	Qualcomm® QCC743	Qualcomm® QCC744	Qualcomm® QCC748	Qualcomm® QCC730
Processor	M3 @ 32 MHz (APP), M0 @ 32 MHz (BLE), RISC-V @ 32 MHz (Security)	RISC-V @ 325 MHz with DSP and FPU	RISC-V @ 325 MHz with DSP and FPU	RISC-V @ 325 MHz with DSP and FPU	M4F @ 60 MHz
Memory	128 KB SRAM	128 KB ROM 484 KB SRAM	128 KB ROM 484 KB SRAM	128 KB ROM 484 KB SRAM	640 KB SRAM
NVM	512 KB RRAM	Flash/PSRAM SIP Optional, External Flash	Flash/PSRAM SIP Optional, External Flash	Flash/PSRAM SIP Optional, External Flash	1.5 MB RRAM
GPIO	Up to 26	Up to 19	Up to 35	Up to 35	Up to 15
Wi-Fi Standard	-	1x1, 2.4GHz, 802.11b/g/n/ax (Wi-Fi 6)	1x1, 2.4GHz, 802.11b/g/n/ax (Wi-Fi 6)	1x1, 2.4GHz, 802.11b/g/n/ax (Wi-Fi 6)	1x1 802.11a/b/g/n (Wi-Fi 4)
Frequency Bands	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz, 5GHz
Channel Bandwidth	125k, 500k, 1M, 2M	20, 40	20, 40	20, 40	20
Voltage	Input: 1.7 ~ 3.6 V, I/O: 1.8 / 3.3 V	Input: 2.9 ~ 3.6 V, I/O: 1.8 / 3.3 V	Input: 2.9 ~ 3.6 V, I/O: 1.8 / 3.3 V	Input: 2.9 ~ 3.6 V, I/O: 1.8 / 3.3 V	Input: 2.6 ~ 3.6 V, I/O: 1.8 / 3.3 V
Temperature	-40 ~ +85 °C	-40 ~ +105 °C	-40 ~ +85 °C	-40 ~ +85 °C	-20 ~ +85 °C
Active Tx Power	16 mA @ +7 dBm	372 mA @ 1 Mbps (802.11b) 262 mA @ MCS9 (802.11ax)	372 mA @ 1 Mbps (802.11b) 262 mA @ MCS9 (802.11ax)	372 mA @ 1 Mbps (802.11b) 262 mA @ MCS9 (802.11ax)	64 mA @ 1 Mbps (802.11b) 44 mA @ MCS3 (802.11n)
Active Rx Power	4.6 mA @ -100 dBm	55 mA @ 1 Mbps (802.11b) 77 mA @ MCS9 (802.11ax)	55 mA @ 1 Mbps (802.11b) 77 mA @ MCS9 (802.11ax)	55 mA @ 1 Mbps (802.11b) 77 mA @ MCS9 (802.11ax)	4.2 mA @ 1 Mbps (802.11b) 4.2 mA @ MCS3 (802.11n)
Sleep Power	1.5 µA DeepSleep, 1.3 µA Hibernate	64 µA DeepSleep, 2.1 µA Hibernate	64 µA DeepSleep, 2.1 µA Hibernate	64 µA DeepSleep, 2.1 µA Hibernate	6.0 µA DeepSleep
DTIM	-	DTIM10: 185 µA (RC 32 K)	DTIM10: 185 µA (RC 32 K)	DTIM10: 185 µA (RC 32 K)	DTIM10: 26 µA
Bluetooth Core Specification	5.4	5.4	5.4	5.4	-
802.15.4	-	Yes	Yes	Yes	-
Interfaces	QSPI, SPI, UART, I2C	QSPI, SPI, SDIO, UART, I2C, I2S, CAN	QSPI, SPI, SDIO, UART, I2S, CAN, RMII	QSPI, SPI, SDIO, UART, I2S, CAN, RMII, USB	QSPI, SPI, UART, I2C
Multimedia	LCD/TFT Display driver	-	Display, Camera, Spkr/Mic, Video	Display, Camera, Spkr/Mic, Video	-
Packaging	QFN-48, 5.6 x 5.6 mm	QFN-40, 5 x 5 mm	QFN-56, 7 x 7 mm	QFN-56, 7 x 7 mm	WLCSP, 3.3 x 3.5 mm