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Platform	Module Supplier	Qualcomm	Qualcomm	Qualcomm	Qualcomm
	Chip Supplier	Qualcomm	Qualcomm	Qualcomm	Qualcomm
	Chip Part Number	QCC-744-2	QCC-744-2	QCC-748-2	QCC-748-2
	CPU	RISC-V @ 325MHz with FPU + DSP	RISC-V @ 325MHz with FPU + DSP	RISC-V @ 325MHz with FPU + DSP	RISC-V @ 325MHz with FPU + DSP
	Flash	8 MB NOR	8 MB NOR	8 MB NOR	8 MB NOR
	RAM	484 KB SRAM + 4 MB pSRAM (SIP)	484 KB SRAM + 4 MB pSRAM (SIP)	484 KB SRAM + 4 MB pSRAM (SIP)	484 KB SRAM + 4 MB pSRAM (SIP)
Connectivity	ROM	128 KB	128 KB	128 KB	128 KB
	Hosted Interface	SDIO, UART, SPI	SDIO, UART, SPI	SDIO, UART, SPI	SDIO, UART, SPI
	Hosted OS	Any	Any	Any	Any
	Hostless OS	FreeRTOS	FreeRTOS	FreeRTOS	FreeRTOS
	SDIO	1 x SDIO	1 x SDIO	1 x SDIO	1 x SDIO
	USB	NA	NA	1 x USB 2.0	1 x USB 2.0
Wireless	SPI / QSPI	1 x SPI / 1 x QSPI	1 x SPI / 1 x QSPI	1 x SPI / 1 x QSPI	1 x SPI / 1 x QSPI
	UART	2 x UART	2 x UART	2 x UART	2 x UART
	I2C	2 x I2C	2 x I2C	2 x I2C	2 x I2C
	ADC	12 x channels 12/16 bit	12 x channels 12/16 bit	12 x channels 12/16 bit	12 x channels 12/16 bit
	DAC	2 x channels 12 bit	2 x channels 12 bit	2 x channels 12 bit	2 x channels 12 bit
	PWM	4 x PWM	4 x PWM	4 x PWM	4 x PWM
Module Spec	GPIOs	27 to 35 multiplexed GPIOs	27 to 35 multiplexed GPIOs	27 to 35 multiplexed GPIOs	27 to 35 multiplexed GPIOs
	Security	Crypto Accelerators	Crypto Accelerators	Crypto Accelerators	Crypto Accelerators
	Secure Boot/Storage/Debug	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes
	Miscellaneous	I2S, SD/MCC/SF, CAN, RMII, JTAG	I2S, SD/MCC/SF, CAN, RMII, JTAG	I2S, SD/MCC/SF, CAN, RMII, JTAG	I2S, SD/MCC/SF, CAN, RMII, JTAG
	Bluetooth Standard + Others	BT 5.4, BLE + 802.15.4	BT 5.4, BLE + 802.15.4	BT 5.4, BLE + 802.15.4	BT 5.4, BLE + 802.15.4
	WiFi Standard	WiFi 6	WiFi 6	WiFi 6	WiFi 6
DVK	MIMO	MU 1x1	MU 1x1	MU 1x1	MU 1x1
	Frequency	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz
	Bandwidth / MCS	HE20/HE40, MCS9	HE20/HE40, MCS9	HE20/HE40, MCS9	HE20/HE40, MCS9
	Antenna Data Rate	229.4 Mbps	229.4 Mbps	229.4 Mbps	229.4 Mbps
	Antenna Type	PCB	RF connector	PCB	RF connector
	PA on Chip / Module	yes / no	yes / no	yes / no	yes / no
Power Supply		Main:3.3V IO:1.8V or 3.3V	Main:3.3V IO:1.8V or 3.3V	Main:3.3V IO:1.8V or 3.3V	Main:3.3V IO:1.8V or 3.3V
Dimension (mm)		14.82 x 23.63	14.82 x 18.63	14.82 x 23.63	14.82 x 18.63
Package		46-pin, LGA	46-pin, LGA	46-pin, LGA	46-pin, LGA
Temperature Range		-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Mounting		single side	single side	single side	single side
Carrier / QTY		Tape & Reel / 1000	Tape & Reel / 1000	Tape & Reel / 1000	Tape & Reel / 1000
MOQ		1000	1000	1000	1000
Weight		1.41 g	1.31 g	1.41 g	1.31 g
Regulatory Compliance		FCC, CE, IC, UKCA, RCM, MIC, KC, SRRC	FCC, CE, IC, UKCA, RCM, MIC, KC, SRRC	FCC, CE, IC, UKCA, RCM, MIC, KC, SRRC	FCC, CE, IC, UKCA, RCM, MIC, KC, SRRC
DVK		YES	YES	YES	YES

Sample Shop	QCC-744M-2-LGM52-MT-01-0-AA	QCC-744M-2-LGM52A-MT-01-0-AB	QCC-748M-2-LGM52-MT-01-0-AA	QCC-748M-2-LGM52A-MT-01-0-AB
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