




		Pin Compatible		Pin Compatible		
						
Part Number	QCC-743M-1-LGM36-MT-01-0-AA	QCC-743M-1-LGM36A-MT-01-0-AB	QCC-744M-2-LGM52-MT-00-0-AA	QCC-744M-2-LGM52A-MT-00-0-AB	FCM360W	
Platform	Module Supplier	Qualcomm	Qualcomm	Qualcomm	Qualcomm	Quectel
	Chip Supplier	Qualcomm	Qualcomm	Qualcomm	Qualcomm	ESWIN
	Chip Part Number	QCC743-1	QCC743-1	QCC744-2	QCC744-2	ECR6600-A
	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	RISC processor, 240 MHz
	Flash	4 MB NOR	4 MB NOR	8 MB NOR	8 MB NOR	4/ 8/ 16 MB Flash
	RAM	484 KB	484 KB	484 KB SRAM + 4 MB pSRAM (SIP)	484 KB SRAM + 4 MB pSRAM (SIP)	512 KB SRAM
	ROM	128 KB	128 KB	128 KB	128 KB	128 KB
	Hosted Interface	SDIO, UART, SPI	SDIO, UART, SPI	SDIO, UART, SPI	SDIO, UART, SPI	USB, SDIO, UART, SPI
	Hosted OS	Any	Any	Any	Any	FreeRTOS or Linux
	Hostless OS	FreeRTOS	FreeRTOS	FreeRTOS	FreeRTOS	QuecOpen (RTOS), Python 3.8
Connectivity	SDIO	1 x SDIO	1 x SDIO	1 x SDIO	1 x SDIO	1 x SDIO
	USB	NA	NA	NA	NA	no
	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	1 x SPI
	UART	2 x UART	2 x UART	2 x UART	2 x UART	3x UART
	I2C	2 x I2C	2 x I2C	2 x I2C	2 x I2C	1x 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	3x ADC
	DAC	2 x channels 12 bit	2 x channels 12 bit	2 x channels 12 bit	2 x channels 12 bit	no
	PWM	4 x PWM	4 x PWM	4 x PWM	4 x PWM	6x PWM
	GPIOs	19 x multiplexed GPIOs	19 x multiplexed GPIOs	35 x multiplexed GPIOs	35 x multiplexed GPIOs	18 x GPIOs
	Security	Crypto Accelerators	Crypto Accelerators	Crypto Accelerators	Crypto Accelerators	no
Wireless	Secure Boot/Storage/Debug Miscellaneous	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes	no
	Bluetooth Standard + Others	BT 5.3, BLE + 802.15.4	BT 5.3, BLE + 802.15.4	BT 5.3, BLE + 802.15.4	BT 5.3, BLE + 802.15.4	BLE 5.1
	WiFi Standard	WiFi 6	WiFi 6	WiFi 6	WiFi 6	WiFi 6
	MIMO	MU 1x1	MU 1x1	MU 1x1	MU 1x1	MU 1x1
	Frequency	2.4 GHz	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	HT20/HT40
	Antenna Data Rate	229.4 Mbps	229.4 Mbps	229.4 Mbps	229.4 Mbps	54 Mbps
	Antenna Type	PCB	RF connector	PCB	RF connector	x 1 (UFL, Pin, PCB)
	PA on Chip / Module	yes / no	yes / no	yes / no	yes / no	yes / no
	Soft AP	yes	yes	yes	yes	yes
Module Spec	Monitor Mode	yes	yes	yes	yes	yes
	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	3.0-3.6V
	Dimension (mm)	12.28 x 17.28	12.28 x 12.28	14.82 x 23.63	14.82 x 18.63	25.5 x 18.0
	Package	32-pin, LGA	32-pin, LGA	46-pin, LGA	46-pin, LGA	LCC
	Temperature Range	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to +85°C / -40°C to +105°C (Optional)
	Mounting	single side	single side	single side	single side	single side
	Carrier / QTY	Tape & Reel / 1000	Tape & Reel / 1000	Tape & Reel / 1000	Tape & Reel / 1000	Tape & Reel / 250
	MOQ	1000	1000	1000	1000	1
	Weight	0.85 g	0.74 g	1.41 g	1.31 g	1.65 g
	Regulatory Compliance	CE, FCC, IC CA, SRRC, etc.	CE, FCC, IC CA, SRRC, etc.	CE, FCC, IC CA, SRRC, etc.	CE, FCC, IC CA, SRRC, etc.	CE, FCC, UKCA, IC, SRRC, RCM
DVK	YES	YES	YES	YES	YES	