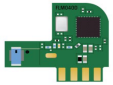
CODICO

Pin Compatible

	Part Number	QCC-730M-1-LGM42-MT-00-0-AA	QCC-730M-1-LGM42A-MT-00-0-AB	QCC-730M-1-LGM42B-MT-00-0-AD	QCC-730M-1-LGM42C-MT-00-0-AE	FC41D	FCM100D	FCM242D	FLM040D	FLM140D	FLM240D	FLM340D
												
Platform	Module Supplier	Qualcomm	Qualcomm	Qualcomm	Qualcomm	Quectel	Quectel	Quectel	Quectel	Quectel	Quectel	Quectel
	Chip Supplier	Qualcomm	Qualcomm	Qualcomm	Qualcomm	Beken	Beken	Beken	Beken	Beken	Beken	Beken
	Chip Part Number	QCC730	QCC730	QCC730	QCC730	BK7231M	BK7231M	BK7238	BK7231M	BK7231M	BK7231M	BK7231M
	CPU	Cortex-M4F @ 60 MHz	Cortex-M4F @ 60 MHz	Cortex-M4F @ 60 MHz	Cortex-M4F @ 60 MHz	ARM968 processor, 120 MHz	ARM968 processor, 120 MHz	ARM968 processor, 120 MHz	ARM968 processor, 120 MHz	ARM968 processor, 120 MHz	ARM968 processor, 120 MHz	ARM968 processor, 120 MHz
	Flash	4 MB NOR	4 MB NOR	4 MB NOR	4 MB NOR	2/ 4 MB Flash	2/ 4 MB Flash	2/ 4 MB Flash	2/ 4 MB Flash	2/ 4 MB Flash	2/ 4 MB Flash	2/ 4 MB Flash
	RAM	640KB SRAM + 1.5 MB RRAM	640KB SRAM + 1.5 MB RRAM	640KB SRAM + 1.5 MB RRAM	640KB SRAM + 1.5 MB RRAM	256 KB RAM	257 KB RAM	258 KB RAM	259 KB RAM	260 KB RAM	261 KB RAM	262 KB RAM
	ROM	NA	NA	NA	NA	yes	yes	yes	yes	yes	yes	yes
	Hosted Interface	SPI or UART	SPI or UART	SPI or UART	SPI or UART	UART (AT commands)	UART (AT commands)	UART (AT commands)			UART (AT commands)	
	Hosted OS	Any	Any	Any	Any	FreeRTOS or Linux	FreeRTOS or Linux	FreeRTOS or Linux	FreeRTOS or Linux	FreeRTOS or Linux	FreeRTOS or Linux	FreeRTOS or Linux
	Hostless OS	FreeRTOS	FreeRTOS	FreeRTOS	FreeRTOS	QuecOpen (RTOS), Python 3.8	QuecOpen (RTOS), Python 3.8	QuecOpen (RTOS), Python 3.8	QuecOpen (RTOS), Python 3.8	QuecOpen (RTOS), Python 3.8	QuecOpen (RTOS), Python 3.8	QuecOpen (RTOS), Python 3.8
Connectivity	SDIO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	USB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SPI / QSPI	1 x SPI (slave) / 1 x QSPI (master)	1 x SPI (slave) / 1 x QSPI (master)	1 x SPI (slave) / 1 x QSPI (master)	1 x SPI (slave) / 1 x QSPI (master)	1x	NA	1x	NA	NA	SPI	NA
	UART	4 x UART	4 x UART	4 x UART	4 x UART	1x	2x	2x	1x	1x	1x	1x
	I2C	1 x I2C (master)	1 x I2C (master)	1 x I2C (master)	1 x I2C (master)	1x	2x	2x	NA	NA	NA	NA
	ADC	NA	NA	NA	NA	1x 13bit 6Mhz	5x 10bit	5x 10bit	2x 13bit	3x 13bit	2x 13bit	2x 13bit
	DAC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PWM	NA	NA	NA	NA	1x	6x PWM	5x PWM	6x PWM	5x PWM	5x PWM	PWM
	GPIOs	15 x multiplexed GPIOs	15 x multiplexed GPIOs	15 x multiplexed GPIOs	15 x multiplexed GPIOs	19 × GPIOs	16 × GPIOs	17 × GPIOs	6 × GPIOs	6 × GPIOs	5 × GPIOs	3 × GPIOs
	Securtiy	Crypto Accelerators	Crypto Accelerators	Crypto Accelerators	Crypto Accelerators	no	no	no	no	no	no	no
	Secure Boot/Storage/Debug	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes	yes/yes/yes
	Miscellaneous	JTAG	JTAG	JTAG	JTAG							
Wireless	Bluetooth Standard	NA	NA	NA	NA	Bluetooth 5.2	Bluetooth 5.2	Bluetooth 5.2	Bluetooth 5.2	Bluetooth 5.2	Bluetooth 5.2	Bluetooth 5.2
	WiFi Standard	WiFi 4	WiFi 4	WiFi 4	WiFi 4	WiFi 4	WiFi 4	WiFi 4	WiFi 4	WiFi 4	WiFi 4	WiFi 4
	MIMO	1x1	1x1	1x1	1x1	1x1	1x1	1x1	1x1	1x1	1x1	1x1
	Frequency	2.4GHz & 5GHz	2.4GHz & 5GHz	2.4GHz & 5GHz	2.4GHz & 5GHz	2.4 Ghz	2.4 Ghz	2.4 Ghz	2.4 Ghz	2.4 Ghz	2.4 Ghz	2.4 Ghz
	Bandwidth / MCS	HT20, MCS3	HT20, MCS3	HT20, MCS3	HT20, MCS3	HT20, MCS 0 - 7	HT20, MCS 0 - 7	HT20, MCS 0 - 7	HT20, MCS 0 - 7	HT20, MCS 0 - 7	HT20, MCS 0 - 7	HT20, MCS 0 - 7
	Antenna Data Rate	28.9 Mbps	28.9 Mbps	28.9 Mbps	28.9 Mbps	54 Mbps	54 Mbps	54 Mbps	54 Mbps	54 Mbps	54 Mbps	54 Mbps
	Antenna Type	PCB	RF connector	PCB	RF connector	PCB / RF connector/ pin	PCB / RF connector/ pin	PCB / RF connector/ pin	Ceramic antenna	PCB	PCB	External pin
	PA on Chip / Module	yes / no	yes / no	yes / yes	yes / yes	yes / no	yes / no	yes / no	yes / no	yes / no	yes / no	yes / no
	Soft AP	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	Monitor Mode	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Module Spec	Power Supply	Main:1.8V to 3.6V IO:1.8V or 3.3V	Main:1.8V to 3.6V IO:1.8V or 3.3V	Main:1.8V to 3.6V IO:1.8V or 3.3V	Main:1.8V to 3.6V IO:1.8V or 3.3V	3.0–3.6 V	3.0–3.6 V	3.0–3.6 V	3.0–3.6 V	3.0–3.6 V	3.0–3.6 V	TBD
	Dimension (mm)	12.28 x 19.0	12.28 x 14.82	12.28 x 22.0	12.28 x 18.0	20.0 × 18.0	24.0 × 16.0	20.0 × 18.0	15.0 × 16.8	17.91× 14.99	17.3 × 15.0	8.5× 12.7
	Package	36-pin, LGA	36-pin, LGA	36-pin, LGA	36-pin, LGA	LCC	LCC	LCC	DIP	DIP	DIP + LCC	DIP
	Temperature Range	-20°C to 85°C	-20°C to 85°C	-20°C to 85°C	-20°C to 85°C	-40°C to +85 °C	-40°C to +85 °C -40°C to +105 °C	-40°C to +105	-40°C to +105	TBD	-40°C to +105	-40°C to +105
	Mounting	single side	single side	single side	single side	single side	single side	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	Tape & Reel / 250	Tape & Reel / 250	Tape & Reel / 500	Tape & Reel / 500	Tape & Reel / 500	Tape & Reel / 500
	MOQ	1000	1000	1000	1000	250	250	250	500	500	500	500
	Weight	0.92 g	0.82 g	1.16 g	1.07 g	1.51 g	1.55 g	1.09 g	0.55 g	0.83 g	0.85 g	0.32 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, IC, SRRC, RCM, KC, TELEC	CE, FCC, IC, SRRC, RCM, Anatel	CE, FCC, IC, SRRC, RCM	CE, FCC, IC, SRRC, RCM, UKCA	CE, FCC, IC, SRRC, RCM, UKCA	CE, FCC, IC, SRRC, RCM	CE, FCC, IC, SRRC, RCM
DVK		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES