

	Apollo3 Blue	Apollo3 Blue Plus	Apollo4 Blue
MCU Frequency	48MHz/96MHz	48MHz/96MHz	96MHz/192MHz
MCU	32-bit ARM Cortex-M4F	32-bit ARM Cortex-M4F	32-bit ARM Cortex-M4F
MCU Power Efficiency	6uA/MHz	6uA/MHz	4uA/MHz
NVM	1MB Flash	2MB Flash	2MB MRAM
SRAM	384KB	768KB	1.8MB
Voltage	1.8 - 3.6V	1.8 - 3.6V	1.71 - 2.2V
ADC	14 bit, 15-channel, up to 2.67 MSps	14 bit, 15-channel, up to 2.67 MSps	12 bit, 11-channel, up to 2.8 MSps
UART	2	2	4
I/O	I ² C /SPI masters (6x) I ² C /SPI slave	I ² C /SPI masters (6x) I ² C /SPI slave	I ² C /SPI masters (7x) I ² C /SPI slave USB FS/HS SDIO v3.0/1x eMMC
MSPI	Dual/Quad/Octal-SPI Master 48MHz SDR	Dual/Quad/Octal-SPI Master(3x) 48MHz SDR	Dual/Quad/Octal-SPI Master(3x) 96MHz SDR 48MHz DDR
I ² S	I ² S slave for PDM Audio pass-through	I ² S slave for PDM Audio pass-through	I ² S master/slave(3x) Full-duplex with ASRC
Audio	PDM	PDM	4xStereo PDM Stereo LP AMIC
Display	SPI/QSPI	SPI/QSPI	SPI/QSPI MIPI DSIx2 4-layer Display Controller
Graphics	-	-	2D/2.5D GPU
Security	Secure SPOT	Secure SPOT	Secure SPOT 2.0
Connectivity	BLE5.0*	BLE5.0*	BLE5.1
RF Sensitivity	-94dBm	-94dBm	-97dBm
Rx current	3mA	3mA	3mA
Tx current	3mA @ 0dBm	3mA @ 0dBm	3mA @ 0dBm
Tx Output Power	-20 dBm to +4dBm	-20 dBm to +4dBm	-20 dBm to +6.8dBm
Packages (mm)	WLCSP: : 3.37 x 3.25 x 0.45 0.35 pitch, 66-pin 37GPIO	BGA: 5.3 x 4.3 x 0.8 0.4 pitch, 108-pin, 74GPIO	BGA: 4.7 x 4.7 x 0.9 0.35 pitch, 131-pin, 81 GPIO
	WLCSP(Thin): 3.37 x 3.25 x 0.3 0.35 pitch, 66-pin 37GPIO With backside coating		
	BGA: 4.5 x 4.5 x 0.8, 0.5 pitch, 81-pin, 50GPIO		