

CONNECTCORE® SBC SELECTION GUIDE

		ConnectCore 6UL SBC Express	ConnectCore 6UL SBC Pro	ConnectCore 6 SBC for i.MX6Quad	ConnectCore 6 SBC for i.MX6Dual	ConnectCore 6 SBC for i.MX6DualLite
PERFORMANCE	Processor	NXP i.MX6UL-2 (Cortex-A7)	NXP i.MX6UL-2 (Cortex-A7)	NXP i.MX6Quad (Cortex-A9)	NXP i.MX6Dual (Cortex-A9)	NXP i.MX6DualLite (Cortex-A9)
	Clock Speed	528 MHz	528 MHz	1.2 GHz	800 MHz	800 MHz
	Microcontroller Assist™	✓	✓	✓	-	-
MEMORY	Flash	256 MB NAND (SLC)	256 MB NAND SLC 4 GB eMMC ^{1,7}	4 GB eMMC ¹	4 GB eMMC ¹	4 GB eMMC ¹
	RAM	256 MB DDR3	256 MB DDR3	1 GB DDR3	1GB DDR3	512 MB DDR3
NETWORKING	Ethernet	1 x 10/100 Mbit	2 x 10/100 Mbit	1 x Gigabit	1 x Gigabit	1 x Gigabit
	Wi-Fi	802.11a/b/g/n/ac 1x1	802.11a/b/g/n/ac 1x1	802.11a/b/g/n 1x1	802.11a/b/g/n 1x1	802.11a/b/g/n 1x1
	Bluetooth	4.2	4.2	4.0	4.0	4.0
	Wi-Fi / Bluetooth Antenna	On-board/U.FL	U.FL/MMCX ⁶	U.FL	U.FL	U.FL
	NFC Forum Type 2 Tag	-	✓	-	-	-
	NFC Antenna	-	External	-	-	-
	XBee® Socket	-	✓	✓	✓	✓
	Digi TrustFence™	✓	✓	✓	✓	✓
CELLULAR ²	Micro SIM Card Slot	-	✓	✓	✓	-
COMMUNICATION	USB 2.0 Host	1	3	3	3	2
	USB 2.0 OTG	1	1	1	1	1
	PCI Express Mini Card 2.1	-	✓ (USB 2.0 Host)	✓ (USB Host 2.0/x1 PCIe)	✓ (USB Host 2.0/x1 PCIe)	-
	RS232/TTL	-/2 ⁴	2/1	2/1	2/1	2/1
	Console	✓ ⁵	✓	✓	✓	✓
	I ² C	✓ ⁴	✓	✓	✓	-
	SPI	✓ ⁴	✓	✓	✓	-
	GPIO	✓ ⁴	✓	✓	✓	✓
	Dual CAN	-	✓	✓	✓	-
	Grove	3	-	-	-	-
	Expansion Connector ⁴	✓ ⁴	-	-	-	-
GRAPHICS	2D/3D Hardware Acceleration (GPU)	-	-	✓	✓	✓
	Hardware Video Encoding/Decoding	-	-	✓	✓	✓
	Resolution	Up to 1366 x 768			Up to 1920 x 1080	
DISPLAY	HDMI	-	-	✓	✓	✓
	LVDS ³	-	1	2	1	-
	MIPI DSI ³	-	-	✓	✓	-
	RGB Parallel	8-bit ⁴	18-/24-bit	24-bit	24-bit	24-bit
CAMERA	MIPI CSI	-	-	✓	✓	-
	8-Bit Parallel	-	✓	2	1	-
AUDIO	Headphone Jack	-	✓	✓	✓	-
	Line-In / Line-Out / Microphone Header	-	✓	✓	✓	-
STORAGE	microSD	✓	✓	✓	✓	✓
	SATA 3.0	-	-	✓	-	-
OTHER	Power / Reset Buttons	✓	✓	✓	✓	✓
	Power / Reset Header	✓	✓	✓	✓	✓
	Coin Cell Battery Header	✓	✓	✓	✓	✓
	Power / User LEDs	✓	✓	✓	✓	✓
	Boot Configuration Switch	Population Options	Population Options	✓	✓	✓
	JTAG (via Tag-Connect)	✓	✓	✓	✓	✓
	SWD (via Tag-Connect)	✓	✓	✓	✓	✓
ENVIRONMENTAL	Operating Temperature	-40° C to 85° C	-40° C to 85° C	-20° C to 70° C	-40° C to 85° C	-40° C to 85° C
MECHANICAL	Dimensions	87 x 63 mm	100 x 72 mm			
	Form Factor	SBC	Pico-ITX			
DIGI SKUS		CC-SBE-WMX-JN58	CC-SBP-WMX-JN58	CC-SB-WMX-J97C-1	CC-SB-WMX-L87C-1	CC-SB-WMX-L76C-1

1. pSLC mode option for industrial reliability
2. Via PCI Express Mini Card Connector, or Digi XBee® Cellular
3. With Touch (I2C) + Backlight Control
4. Raspberry Pi HAT compatible header (and mounting holes)
5. USB Device via USB Type AB connector
6. On-board antenna switch configuration
7. Software-selectable: on-board eMMC or microSD