





Single Board Computers Comparison Guide



CPU				
CPU Architecture	X86	ARM Cortex A7	X86	X86
CPU Model	Intel Atom™ Processor x5 Series E3930 64-bit Dual Core / x7 Series E3950 64-bit Quad Core Intel® Celeron® Processor J Series 64-bit Quad Core	i.MX7 Dual Core	Bay Trail N2930 Quad Core Bay Trail N2807 Dual Core Bay Trail E3845 Quad Core	Bay Trail N2930 Quad Core Bay Trail N2807 Dual Core Bay Trail E3845 Quad Core
CPU Frequency	Up to 2.3 GHz	1 GHz	Up to 1.91 GHz	Up to 1.91 GHz
MEMORY & STORAGE				
Memory	Up to 16GB DDR3L	Up to 2GB DDR3L	Up to 8GB DDR3	Up to 4GB DDR3
Onboard Storage	512MB NAND	Up to 32GB eMMC/NAND	8GB SD Card or 1GB NAND	8-16GB mSata
DISPLAY				
Display Interface	HDMI 1.4 3840x2160 @30Hz Mini DP 1.2 4096x2160 @60Hz Mini DP 1.2 3840x2160 @30Hz	HDMI	DVI LVDS	LVDS HDMI VGA*
Display Resolution (Max)	4096x2160	1920x1080	1920x1200	1920x1200
NETWORK				
Ethernet Ports	-	Up to 2	2	1
WiFi	802.11a/b/g/n*	802.11a/b/g/n*	-	-
Bluetooth	4.0*	4.1*	-	-
USB 2.0 Ports Host	2	Up to 4	6	5
USB 3.0 Ports Host	2	-	1	1
PCIe	-	Up to 1 (Gen 2.1)	2	2
MMC/SD/SDIO	-	1	-	-
GPIO	-	Up to 12	Up to 8	-
UART/Serial	-	Up to 3	4	2
SPI	-	1	-	-
I2C	-	1	-	-
ELECTRICAL & MECHANICAL				
PS Voltage	7-20 VDC	8V-24V	9V - 24V	12V
Dimensions	105 x 84 x 23 mm	100 x 80 x 20mm	146 x 102	100 x 72
OS Support	Linux Mint 64-bit Windows 10 Pro 64-bit / 10 IoT Enterprise LTSB Entry	Linux/Linux Yocto	Linux Windows 10 Enterprise LTSB Windows 7 / 8	Linux Windows 10 Enterprise LTSB Windows 7 / 8
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* Optional feature available on this product