

Product Name: AL-9A2



Processor	<p>Intel Atom® Processor E3900 Series, BGA 1296</p> <p>Intel Atom® x7-E3950 Processor, Quad Core, 2M Cache, 1.6GHz (2.0GHz), 12W</p> <p>Intel Atom® x5-E3940 Processor, Quad Core, 2M Cache, 1.6GHz (1.8GHz), 9.5W</p> <p>Intel Atom® x5-E3930 Processor, Dual Core, 2M Cache, 1.3GHz (1.8GHz), 6.5W</p> <p>Intel® Pentium® Processor N4200, Quad Core, 2M Cache, 1.1GHz (2.5GHz), 6W</p> <p>Intel® Celeron® Processor N3350, Dual Core, 2M Cache, 1.1GHz (2.4GHz), 6W</p>
Part Number	AL-9A2
Memory	<p>4GB/8GB DDR3L Memory Down (ECC support only for 8GB)</p> <p>Single Channel DDR3L 1600MHz</p>
BIOS	AMI SPI 128Mbit (supports UEFI boot only)
Controller	Intel® HD Graphics
Feature	<p>OpenGL 5.0, DirectX 12, OpenCL 2.1</p> <p>HW Decode: AVC/H.264, MPEG2, VC1, WMV9, JPEG/MJPEG, HEVC/H.265, VP8, VP9, MVC</p> <p>HW Encode: AVC/H.264, JPEG/MJPEG, HEVC/H.265, VP8, VP9, MVC</p>
Display	<p>1 x DDI (HDMI/DVI/DP)</p> <p>1 x LVDS/eDP</p> <p>LVDS: single channel 24-bit, resolution up to 1366x768 @ 60Hz</p> <p>HDMI: resolution up to 3840 x 2160 @ 30Hz</p> <p>DP++: resolution up to 4096x2160 @ 60Hz</p> <p>eDP: resolution up to 3840x2160 @ 60Hz</p>
Dual Displays	<p>DDI + LVDS</p> <p>DDI + eDP</p>
Expansion	<p>4 x PCIe x1 (Gen 2)</p> <p>1 x SDIO (available upon request)</p> <p>1 x LPC</p> <p>2 x I2C</p> <p>1 x SMBus</p> <p>1 x SPI</p> <p>2 x UART (TX/RX)</p>



Audio	HD Audio
Ethernet	1 x Intel® I210AT (10/100/1000Mbps) (0°C to 60°C) 1 x Intel® I210IT (10/100/1000Mbps) (-40°C to 85°C)
USB	2 x USB 3.0 8 x USB 2.0
Storage	2 x SATA 3.0 (up to 6Gb/s)
eMMC	1 x 8GB/16GB/32GB/64GB eMMC (available upon request)
GPIO	1 x 8-bit GPIO
Power	4.75V~20V, 5VSB, VCC_RTC (ATX mode) 4.75V~20V, VCC_RTC (AT mode)
OS Support	Windows: Windows 10 IoT Enterprise 64-bit Linux: Ubuntu 15.10 (Intel® graphic driver available)
Operating Temperature	0 to 60°C
Dimensions	COM Express® Mini 84mm (3.30") x 55mm (2.16")
Compliance	PICMG COM Express® R2.1, Type 10