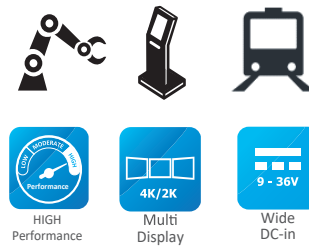
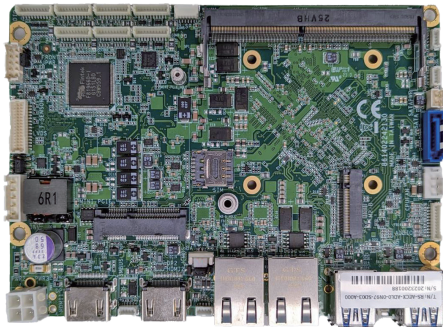


AECX-ADLO

Intel® Alder Lake-N Series based 3.5" Embedded board support Core-i3®/Pentium®/Celeron®/Atom® processors with 2DP(Co-lay HDMI)/1LVDS(eDP)/1SATA III/1M.2 B+M-Key/1mini PCIe /6COM, 6USB, Dual 2.5GbE LAN



Key Features

- Intel® Alder Lake-N Atom®/ Pentium®/ Celeron® series Embedded Board
- One 260-pin SO-DIMM up to 32GB DDR4 3200MT/s SDRAM
- Multi-Display : 2 DP (HDMI) / 1 LVDS(eDP) w/Triple Display
- Two Intel® 2.5 Gigabit Ethernet port
- 1 x Mini PCIe slot Full Size (PCIe x1 / USB 2.0)
- 1 x M.2 B+M-key 3042/2242 slot (w/ nSIM Socket, PCIe x2 / SATA, NVMe)
- 1 SATAIII, 6 COM, 4 USB3.2 and 2 USB2.0
- Supports 4K/2K Resolution Display
- DC-IN 9V ~ 36V, EuP/ErP 2013 Ready

Product Specification

System Processor/Chipset	
Processor	Intel® Alder Lake-N Series Embedded Board Core® i3-N305 (up to 3.80 GHz, OC, 32EU, 15W) Processor® N200 (up to 3.70 GHz, QC, 32EU, 6W) Processor® N97 (up to 3.60 GHz, QC, 24EU, 12W) Processor® N50 (up to 3.40 GHz, DC, 16EU, 6W) Atom® x7425E (up to 3.40 GHz, DC, 24EU, 12W) Atom® x7211E (up to 3.20 GHz, DC, 16EU, 6W)
Chipset	Intel® Alder Lake-N Series Embedded Board
BIOS	AMI® UEFI Flash ROM
Memory	
Technology	DDR4 SDRAM up to 3200MT/s
Max. capacity	Up to 32GB
Socket	1 x 260Pin SO-DIMM
Display	
Graphics	Intel® Gen12 Graphics
Display interface	2 x HDMI 1.4 4K30Hz - Default 2 x DP v1.4a 4K60Hz 1 x LVDS 2ch 2K60Hz (co-layout eDP v1.4 4K60)
Multi-display	Up to three independent displays
Resolution	DP v1.4a : up to 4096 x 2160 @ 60Hz (Max.) HDMI v1.4 : up to 4096 x 2160 @ 30Hz (Max.) eDP v1.4 : up to 4096 x 2304 @ 60Hz (Max.) LVDS : up to 1920 x 1200 @ 60Hz (Max.)
Ethernet	
Interface	10/100/1000/2500 Mbps
Controller	Intel® i225 LM.S.T PCIe 2.5Gigabit LAN
Connector	2 x RJ45 LAN port (Rear I/O)
Audio	
Interface	Line-in, Line-out, Mic-in
CODEC	Realtek® ALC888s 7.1 HD Audio Codec
Expansion Slot	
TPM	TPM2.0 (Optional)
Mini-PCIe	1 x Mini PCIe slot Full Size (PCIe x1 / USB 2.0) support nSIM (Optional)
M.2	1 x M.2 B+M-key 3042/2242 slot (w/ nSIM Socket, PCIe x2 / SATA, NVMe)
SATA	
Max. Data Rate	6.0GB/s (SATA III)
Port	1 x M.2 B+M-key 3042/2242 slot (SATA) 1 x SATA III port
I/O	
Audio	Line-in, Line-out, Mic-in (box-header)
COM	2 x RS-232/422/485 (box-header) 4 x RS-232 (box-header)
FAN	1 x CPU FAN 4-pin PWM (wafer-header)
GPIO	1 x 8-bit Programmable Digital I/O
I2C	1 x I2C interface (Box-Header)
SMBus	1 x SMBus interface (Box-Header)
USB	4 x USB 3.2 (Rear I/O)/ 2 x USB 2.0 (Box-header)

*All specifications and photos are subject to change without prior notice

Power Requirement	
Power connector	ATX4P (2x2Pin, +9V~+36V Vertical and R/A) or DC-Jack Ø2.5mm (Screw, +9V~+36V)
Power type	DC-In +9V~+36V
Power mode	AT / ATX (by jumper selection)
Watchdog Timer	
Interval	Programmable 1~255 sec./min
Output	System reset
Environment	
Operating temperature	0°C ~ 60°C (32°F ~ 140°F) Standard
Storage temperature	-40°C ~ 80°C (-40°F ~ 230°F)
Relative humidity	0%~ 95% (non-condensing)
Form Factor	
Dimensions (L x W)	3.5" Embedded Board 146mm x 102mm (5.75"x 4.01")

Rear I/O



Dimensions



Ordering Information

P/N	Description
AECX-ADLO-N305	3.5", Intel Core i3-N305 15W, 2DP/LVDS, SATA/6COM/6 USB/2LAN, DC(9V~36V)/ATX4P
AECX-ADLO-N200	3.5", Intel Processor N200 6W, 2HDMI/LVDS, SATA/6C OM/6USB/2LAN, DC(9V~36V)/ATX4P
AECX-ADLO-0N97	3.5", Intel Processor N97 12W, 2HDMI/LVDS, SATA/6C OM/6USB/2LAN, DC(9V~36V)/ATX4P
AECX-ADLO-0N50	3.5", Intel Processor N50 6W, 2DP/LVDS, SATA/6COM/6 USB/2LAN, DC(9V~36V)/ATX4P
AECX-ADLO-7425	3.5", Intel Atom x7425E 12W, 2DP/LVDS, SATA/6COM/6 USB/2LAN, DC(9V~36V)/ATX4P
AECX-ADLO-7211	3.5", Intel Atom x7211E 6W, 2HDMI/LVDS, SATA/6COM /6USB/2LAN, DC(9V~36V)/ATX4

Optional Accessories

Part Number	Description
VK00000700A9	SATA Cable
VK00002600A9	SATA Power cable
TBD	Heat Spreader
TBD	Heatsink

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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