

# AECX-EHLO

Intel® Atom® / Pentium® / Celeron® Series SoC based 3.5" Embedded Board with DP (HDMI)/2 LVDS, SATA III, 2 COM, 6 USB, Intel® GbE LAN.



## Key Features

- Intel® Elkhart Lake Atom® / Pentium® / Celeron® series SoC onboard
- One 204-pin SO-DIMM up to 32GB DDR4 3200MT/s SDRAM
- Multi-Display : HDMI (DP) / 2 LVDS
- Two Intel® Gigabit Ethernet port
- 1 Mini PCIe (full-size), 1 M.2 B+M-key 3042 (WWAN w/ Micro-SIM)/ 2242 (SSD), 1 AMIO expansion slots
- 1 SATA III (w/ SATADOM), 2 USB 3.0 and 3 USB 2.0 ports
- Supports 4K/2K Resolution Display
- DC-IN 12V or 19V ~ 24V, EuP/ErP 2013 ReadyEuP/ErP 2013 Ready

## Product Specification

System Processor/Chipset	
Processor	Intel® Elkhart Lake series SoC onboard Atom® x6425E (2.0GHz/3.0GHz, QC, 32EU, 12W) Atom® x6413E (1.5GHz/3.0GHz, QC, 16EU, 9W) Pentium® J6426 (2.0GHz/3.0GHz, QC, 32EU, 10W) Pentium® N6415 (1.2GHz/3.0GHz, QC, 16EU, 6.5W) Celeron® J6412 (2.0GHz/2.6GHz, QC, 16EU, 10W) Celeron® N6211 (1.2GHz/3.0GHz, DC, 16EU, 6.5W)
Chipset	Intel® Elkhart Lake SoC integrated
BIOS	AMI® UEFI Flash ROM
Memory	
Technology	DDR4 SDRAM up to 3200 MT/s
Max. capacity	Up to 32GB
Socket	1 x 204-pin SO-DIMM
Display	
Graphics	Intel UHD Graphics 10th Gen Graphics
Display interface	2 x HDMI v2.0b or DP v1.4a (BOM Change) 2 x LVDS 2-channel 18/24-bit 1 x eDP v1.3 (optional)
Multi-display	Up to three independent displays
Resolution	DP: Up to 4096 x 2304 @ 60Hz (max.) HDMI: Up to 4096 x 2160 @ 60Hz (max.) LVDS: Up to 1920 x 1200 @ 60Hz (max.) eDP: Up to 4096 x 2160 @ 60Hz (max.)
Ethernet	
Interface	10/100/1000 Mbps
Controller	Intel® I211 GbE / Intel® I210 GbE
Connector	2 x RJ45 (rear I/O)
Audio	
Interface	Line-in, Line-out, Mic-in
CODEC	Realtek® ALC888S HD Audio Codec
Expansion Slot	
TPM	TPM2.0
Mini-PCIe	1 x Mini-PCIe (Full-size)
M.2	1 x M.2 B+M-Key 3042 (WWAN, w/ uSIM) / 2242 (SSD)
SATA	
Max. Data Rate	6.0GB/s
Port	1 x SATA III support SATADOM
I/O	
Audio	Line-in, Line-out, Mic-in (box-header)
COM	1 x RS-232/422/485 (box-header) 1 x RS-232 (box-header)
FAN	1 x CPU FAN 4-pin PWM (wafer-header)
GPIO	1 x 8-bit Programmable GPIO (box-header)

I <sup>2</sup> C	1 x I <sup>2</sup> C (box-header)
SMBus	1 x SMBus (box-header)
USB	3 x USB 3.1 (rear I/O), 3 x USB 2.0 (2 box-header)
Power Requirement	
Power connector	ATX 2x2-pin for Standard DC-Jack $\phi$ 2.5mm screw type (optional)
Power type	DC-IN 12V or DC-IN 19V~24V (by jumper selection)
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) -20°C ~ 70°C ( -4°F ~ 158°F) optional -40°C ~ 70°C (-40°F ~ 158°F) optional
Storage temperature	-40°C ~ 80°C (-40°F ~ 176°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") X 17.3mm

## Rear I/O



## Dimensions



Rear I/O SIDE

## Ordering Information

Part Number	Description
AECX-EHLO-6425	3.5", Intel Atom x6425E 12W. HDMI/2LVDS.SATA/2COM/6USB/2LAN.DC(12V,19~24V)/ATX4P
AECX-EHLO-6413	3.5", Intel Atom x6413 10W. HDMI/2LVDS.SATA/2COM/6USB/2LAN.DC(12V,19~24V)/ATX4P
AECX-EHLO-6426	3.5", Intel Pentium J6426 10W. HDMI/2LVDS.SATA/2COM/6USB/2LAN.DC(12V,19~24V)/ATX4P
AECX-EHLO-6412	3.5", Intel Celeron J6426 10W. HDMI/2LVDS.SATA/2COM/6USB/2LAN.DC(12V,19~24V)/ATX4P

## 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.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660