

# AECX-TGLO

Intel® Tiger Lake-UP3 Series based 3.5" Embedded Board supports Intel® 11th Gen Core™ i7/i5/i3/Celeron® Processors with Dual HDMI/DP, Dual LVDS, SATAIII, 4COM, 8USB, Dual Intel® GbE LAN



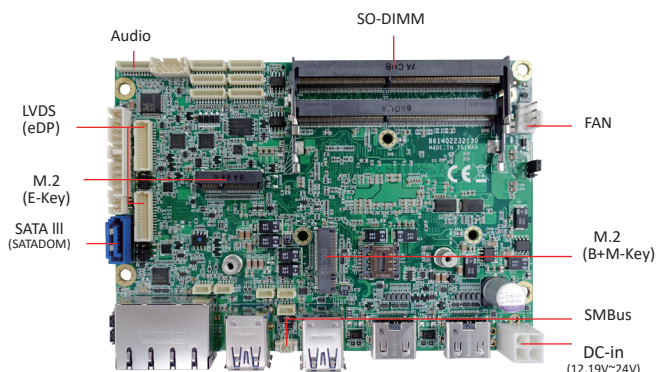
Multi Display



HIGH Performance



Fanless



## Key Features

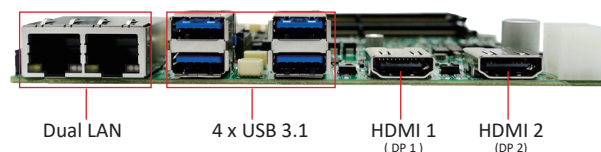
- Intel® 11th Generation Core™ i7/i5/i3/Celeron® series processor on board
- Two DDR4 SO-DIMM
- Multi-Display: 2 x HDMI (option 2 x DP)/ 2 x LVDS
- Two Intel® Gigabit Ethernet ports
- 1 x M.2 M 2280; M.2 B+M 3042/2242; M.2 E 2230
- 1 x SATA III, 4 x COM, 4 x USB 3.1 and 4 x USB 2.0
- Supports 4K/2K resolution display
- DC-in 12V or 19 ~24V

## Product Specification

System Processor/Chipset	
Processor	Intel® 11th Generation Core™ i7/i5/i3/ Celeron® series processor on board
Chipset	Intel® Tiger Lake-UP3 Processor integrated
BIOS	AMI SPI Flash ROM
Memory	
Technology	DDR4 SDRAM up to 3200MT/s (max.)
Max. capacity	up to 64GB (32GB per DIMM)
Socket	2 x 260-pin SO-DIMM
Display	
Graphics	Intel® HD Gen.12-H/LP-HD Graphics
Display interface	2 x HDMI v2.0 (or 2 x DP optional) 2 x LVDS
Multi-display	HDMI1 + HDMI2 + LVDS1 + LVDS2 DP1 + DP2 + LVDS1 + LVDS2
Resolution	DP: Up to 4096 x 2160 @ 60Hz (max.) HDMI: Up to 4096 x 2160 @ 60Hz (max.) LVDS: Up to 1920 x 1200 @ 60Hz (max.)
Ethernet	
Interface	10/100/1000 Mbps
Controller	Intel® I219LM + i211AT GbE
Connector	2 x RJ45
Audio	
Interface	Line-out, Mic-in, Line-in
CODEC	Realtek ALC888S HD
Expansion Slot	
M.2	1 x M.2 M-Key 2280 (PCIe) ; 1 x M.2 E-Key 2230 1 x M.2 B+M-Key 3042(w/nano SIM) / 2242 (SATA SSD)
SATA	
Max. data transfer rate	6.0 Gb/s
Port	1 x SATA III
I/O	
Audio	Line-out, Mic-in, Line-in (box-header)
USB	4 x USB 3.1 (Rear I/O) 4 x USB 2.0 (box-header)
COM	3 x RS-232 (box-header) 1 x RS-232/422/485 (box-header)
HDMI/VGA/DVI/DP	2 x HDMI or DP(optional) (Rear I/O) 2 x LVDS (box-header)
DIO	1 x 8-bit programmable Digital I/O (box-header)
SMBus	1
Power Requirement	
Power connector	ATX 4P or DC-Jack
Power type	DC-in 12V or 19V ~ 24V
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	-20°C ~ 80°C (-4°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")

## Rear I/O



## Dimensions



## Ordering Information

Part Number	Description
AECX-TGLO-1185	3.5", Intel i7-1185G7E 28W.2DP/2LVDS.SATA/5COM/8USB/2LAN.DC(12V~24V)/ATX4P
AECX-TGLO-1145	3.5", Intel i5-1145G7E 28W.2DP/2LVDS,SATA/5COM/8USB./2LAN,DC(12V~24V)/ATX4P
AECX-TGLO-1115	3.5", Intel i3-1115G4E 28W.2HDMI/2LVDS.SATA/5COM/8USB/2LAN.DC(12V~24V)/ATX4P
AECX-TGLO-6305	3.5", Intel Celeron 6305E 15W.2HDMI/2LVDS,SATA/5COM/8USB./2LAN,DC(12V~24V)/ATX4P

## Optional Accessories

Part Number	Description
VK00000700A9	SATA cable
VK000002600A9	SATA power cable
TBD	Heatsink
TBD	Heat Spreader