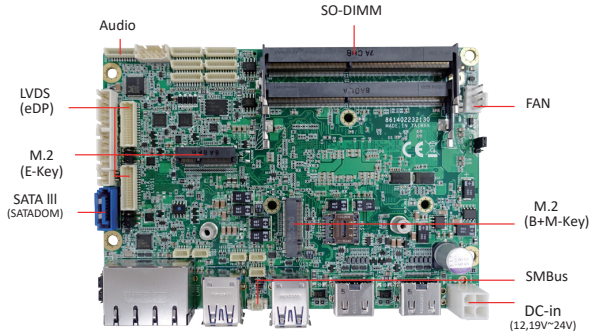


# AECX-TGLO

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



## Key Features

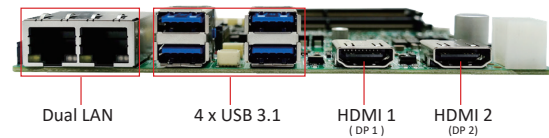
- Intel® 11th Generation Core™ i7/i5/i3/Celeron® series processor on board
- Two DDR4 SO-DIMM
- Multi-Display: 2 x HDMI (option 2 x DP)/ 2 x LVDS
- Two Intel® Gigabit Ethernet ports
- 1 x M.2 M 2280; M.2 B+M 3042/2242; M.2 E 2230
- 1 x SATA III, 4 x COM, 4 x USB 3.1 and 4 x USB 2.0
- Supports 4K/2K resolution 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)<br>2 x LVDS  |
| Multi-display            | HDMI1 + HDMI2 + LVDS1 + LVDS2<br>DP1 + DP2 + LVDS1 + LVDS2  |
| Resolution               | DP: Up to 4096 x 2160 @ 60Hz (max.)<br>HDMI: Up to 4096 x 2160 @ 60Hz (max.)<br>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<br>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)<br>4 x USB 2.0 (box-header)  |
| COM                      | 3 x RS-232 (box-header)<br>1 x RS-232/422/485 (box-header)  |
| HDMI/VGA/DVI/DP          | 2 x HDMI or DP(optional) (Rear I/O)<br>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<br>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    |

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

## 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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