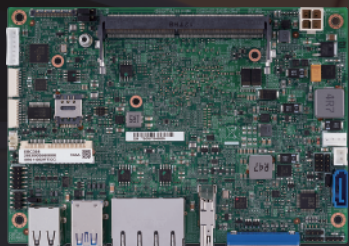
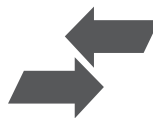
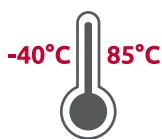


Wide-Temp EBC358X Embedded Motherboard Ensures Reliability in Extreme and Rough Environments



Industrial and outdoor environments are subject to unpredictable and variable temperatures, requiring versatile and durable equipment. The EBC358X offers superb processing power, display performance, reliability, and efficiency, all in one compact package. EBC358X is designed to work at an operating temperature range of -40°C to 80°C , which is ideal for embedded applications in either outdoor or semi-outdoor environments, such as outdoor systems installed in harsh environments. Supporting EtherCAT, it increases production capacity and deflection rate while significantly lowering operational risks.



Compact Design

Extended Temperature

Rich I/O Ports

Multiple Displays

Thermal Optimization

Wide Temperature Design-in Services

- Solution for -40°C to 85°C environment
- Intelligent software API for thermal protection

Thermal Simulation Service

- Effective tools to validate thermal
- Management in the early design process

Cooling Consulting Service

- Feasibility evaluation
- Air flow design
- Heat sink design

Specifications



Model	EBC358X	EBC357X	ICES501X
CPU	Intel Atom® x6000 Series	Intel Atom® E3900 Series	Intel Atom® E3800 Series
Main Memory	1x DDR4-3200 with non-ECC SO-DIMM, Max.32GB	2x DDR3L SO-DIMM, Max.8GB	DDR3L-1333 / 1066 Up, Non-ECC memory down, Max.4GB
On-board LAN	2x Intel® i210-IT	2x Intel® i210-IT	1 x Intel® I210
I/O Interface	2 x USB3.2 Gen1, 4 x USB2.0, 1 x SATA3.0, 3 x RS232, 1 x RS232/485/422, 1 x Front panel header, 1 x 4-pin fan connector, (support Smart Fan) 8 bit GPIO(4-in/4-out), WDT, SMBus / I2C, On Board TPM2.0	2 x USB 3.0, 4 x USB 2.0, 1 x RS232, 1 x RS232/422/485, 8 bit GPIO(4-in/4-out) 1 x Front panel header, 1 x 4-pin fan connector	3 x PCIe X1 (Optional 4 PCIE interface if Ethernet is disabled), 1 x USB 3.0, 7 x USB 2.0, 2 x SATA 2.0 8 bit GPIO(4-in/4-out)
Display	1 x HDMI 1 x VGA 1 x LVDS	1 x HDMI 1 x VGA 1 x LVDS	1 x DP 1 x LVDS
Storage	1 x SATA 3.0	1 x SATA 3.0	Optional 4GB or 8GB: Micron eMMC chip on board
Extension slot	1 x M.2 2242 B-key (Support SATA/PCIex1) 1 x M.2 3042 B-key (for LTE 5G)(SATA/PCIe/USB3.2 Gen1) with Nano-SIM 1 x Mini Pcie	1 x M.2 2242 M-Key (Support M.2 SSD, WWAN , 3G/4G , with SIM card reader)	-
Power input	12V or 24V DC Input	12V DC input	12V DC input
Form Factor	146mm(L) x 105mm(W)	146mm (L) x 102mm (W)	55mm (L) x 84mm (W)
Operating Temp.	-40° C to 80° C	-40° C to 85° C	-40° C to 85° C
Certifications	CE/FCC Class A	CE/FCC Class A	CE/FCC Class B
Ordering Information	EBC 358X (P/N: 10E00035803X0) EBC 358X-6413E (P/N: 10E00035805X0) EBC 358X-6211E (P/N: 10E00035806X0)	EBC 357X-E3950 (P/N: 10E00035700X0) EBC 357X-E3930 (P/N: 10E00035701X0)	ICES 501X-E3845 (P/N:TBD) ICES 501X-E3826 (P/N:TBD)