

ECX700-ASL

Intel Atom® Processor Industrial RE Series
Ruggedized Fanless Embedded System



KEY FEATURES



Ultra Rugged Design

IP68/ IP69K, comply with military criteria of vibration and shock test



Wide Temperature

Operating temperature: -40° to 70° C



Wide Voltage

Power range: 9~36V



On Board RAM/Storage

LPDDR5 4800 MHz memory down
eMMC Module - Easy maintenance

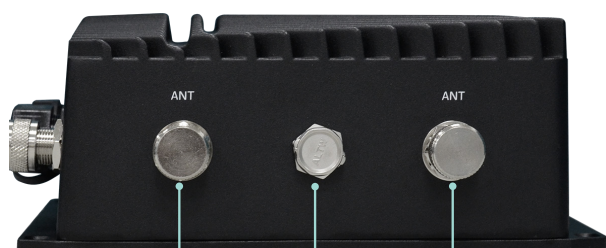


Wireless

Optional WiFi, LTE

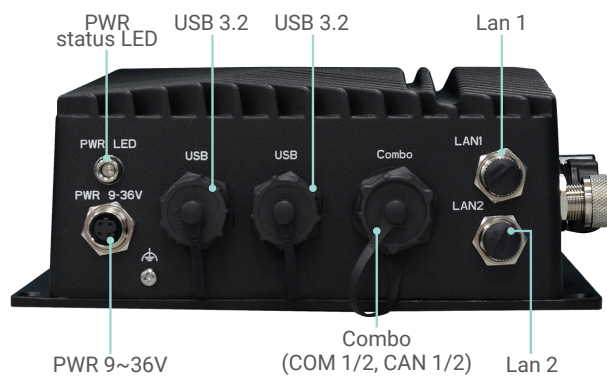


PANEL



LTE ANT SmartVent LTE ANT

Top View



PWR status LED USB 3.2 USB 3.2 Lan 1
PWR 9~36V Combo LAN2
Combo (COM 1/2, CAN 1/2) Lan 2

Bottom View



WIFI ANT External SIM slot

Right View

SPECIFICATION

SYSTEM	Processor	Intel® Atom® X7433RE 4 Cores, 1.5GHz to 3.4 GHz Intel® Atom® X7835RE 8 Cores, 1.3GHz to 3.6GHz
	Memory	8GB/16GB LPDDR5 4800 Memory down
	BIOS	AMI SPI 256Mbit (supports UEFI boot only)
GRAPHICS	Controller	Intel® UHD Graphics
	Feature	Execution Units: Up to 32 EUs 3D API: Open GL 4.6, DirectX12, Vulkan 1.2 (Windows) Mesa 3D, OpenGL 4.6, Vulkan 1.2 (Linux) Precision: FP32, FP16, INT8 Compute: OpenCL 3.0
	Display	1 x HDMI
STORAGE	eMMC	64GB / 128GB Available
EXPANSION	Interface	1 x M.2 2230 E key (USB 2.0/PCIe, support CNVi) 1 x M.2 3042/3052 B key: USB3.0/USB2.0/PCIe with SIM 1 x M.2 2242/2280 M key (*PCIe/SATA)
ETHERNET	Controller	2 x Intel Ethernet controller i226 2.5GbE
LED	Indicators	1 x Power Status LED
BOTTOM I/O	USB	2 x USB 3.2
	LAN	2 x 2.5GbE
	Combo	2 x RS232 and 2 x Can bus protocol (4 x Can bus protocol by project support)
	Power	1 x DC-Input
TOP I/O	Antenna Hole	2 x Antenna (LTE)
	Vent	1 x Vent
FRONT I/O	Display	1 x HDMI
	SIM slot	1 x SIM card slot
	Antenna Hole	2 x Antenna (WiFi)
POWER	Type	DC-in 9~36V
	Connector	M12 D-code
OS SUPPORT	Microsoft	Windows® 11 IoT Enterprise
	Linux	Linux Ubuntu 22.04
MECHANISM	Mounting	Wall mount
	Dimensions (W x H x D)	222 X 192 X 88.6mm (with wall-mount bracket)
	Weight	3 Kg
ENVIRONMENT	Operating Temperature	-40 to 70°C with 0.6m/s air flow
	Storage Temperature	-40 to 85°C
	Relative Humidity	5 to 95% RH (non-condensing)
STANDARDS AND CERTIFICATIONS	Construction	IP68 (1.5M, 30Min)/IP69K enclosure
	Shock	Operation shock test: IEC-60068-2-27 MIL-STD-810H Method 516.8, Procedure I
	Vibration	Operation Vibration test: IEC 60068-2-64 MIL-STD-810H Figure 514.8C-6 Category 4
	Certifications	CE, FCC class A, RoHS

ORDERING INFORMATION

Model Name	Part Number	Description
ECX700-ASL2020A-X33	750-ECX7000-000G	ECX700-ASL: ECX700-ASL2020A-X33, IP68 Box PC, ATOM X7433RE, 64GB eMMC, 16GB memory down, 2 COM, 2 CAN, 2 USB, 1 HDMI, 2 LAN, DC9~36V, TPM2.0, Wide Temp. -40~70 F/G SYSTEM RoHS
ECX700-ASL2020A-X35	750-ECX7000-100G	ECX700-ASL: ECX700-ASL2020A-X35, IP68 Box PC, ATOM X7835RE, 64GB eMMC, 16GB memory down, 2 COM, 2 CAN, 2 USB, 1 HDMI, 2 LAN, DC9~36V, TPM2.0, Wide Temp. -40~70 F/G SYSTEM RoHS

OPTIONAL ITEMS

Optional Items	Part Number	Description
External USB cable	A81-001129-068G	IP67 USB Plug to USB Plug, 300mm
External HDMI cable	A81-026004-068G	IP67 HDMI Plug to HDMI Plug, 300mm
WiFi / LTE Rod type Antenna	612-139917-000G	Omni-S Thimble IP68 LTE ANTENNA, 1710-7125MHz, REVISE N TYPE, L= 55mm, 1399.17.0224 (HUBER+SUHNER) RoHS *Note: Designed for high vibration environments such as mining and construction vehicles.
WiFi Cabled type Antenna	612-RFA25T-100G	ANTENNA, 2400-2500MHz, 5150-5925MHz, REVISE N TYPE, L= 53mm, RFA-25-T288-41-1M-N (ARISTOTLE) RoHS *Note: Designed to resist corrosion under high temperature, humidity, and salt-spray exposure.
LTE Cabled type Antenna	612-RFALTE-200G	ANTENNA, 698-960MHz, 1710-2170MHz, 2300-2700MHz, REVISE N TYPE, L= 53mm, RFA-LTE-T288-41-1M-N (ARISTOTLE) RoHS *Note: Designed to resist corrosion under high temperature, humidity, and salt-spray exposure.