

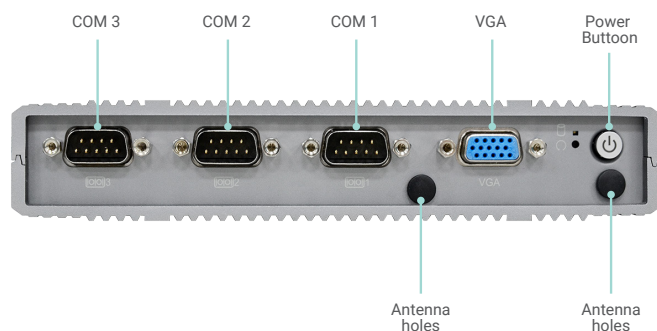
EC700-ASL/ EC710-ASL

Intel® Processor Industrial RE Series
Fanless Embedded System



PANEL: EC700-ASL

System Height = 33mm



Front View

KEY FEATURES



On Board OOB built-in

Hardware status remote control & monitor, BIOS remote setup/update, OS remote recovery, Open-SSH/UEFI Shell/In-Band Windows support



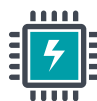
Slim and Fanless

Slim and fanless design for limited-space condition



Intel TCC within the system

Supported by Industrial RE Series CPU and TSN standard up to 2.5GbE (Opt.)



On Board DDR5 Support

LPDDR5 4800 MHz memory down



Up to Quad Display Support

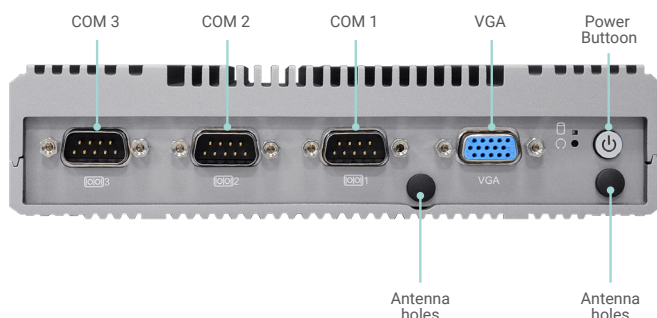
Support via HDMI/USB-C/VGA, Quad display support by Dev



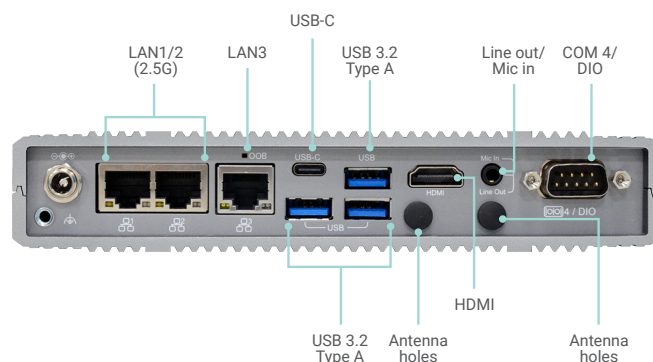
IoT Solutions Alliance

PANEL: EC710-ASL

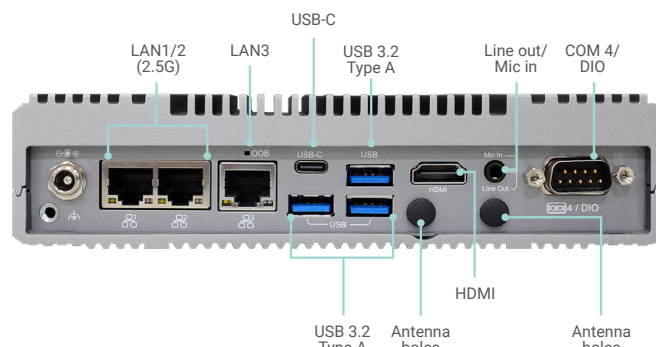
System Height = 43mm



Front View



Rear View

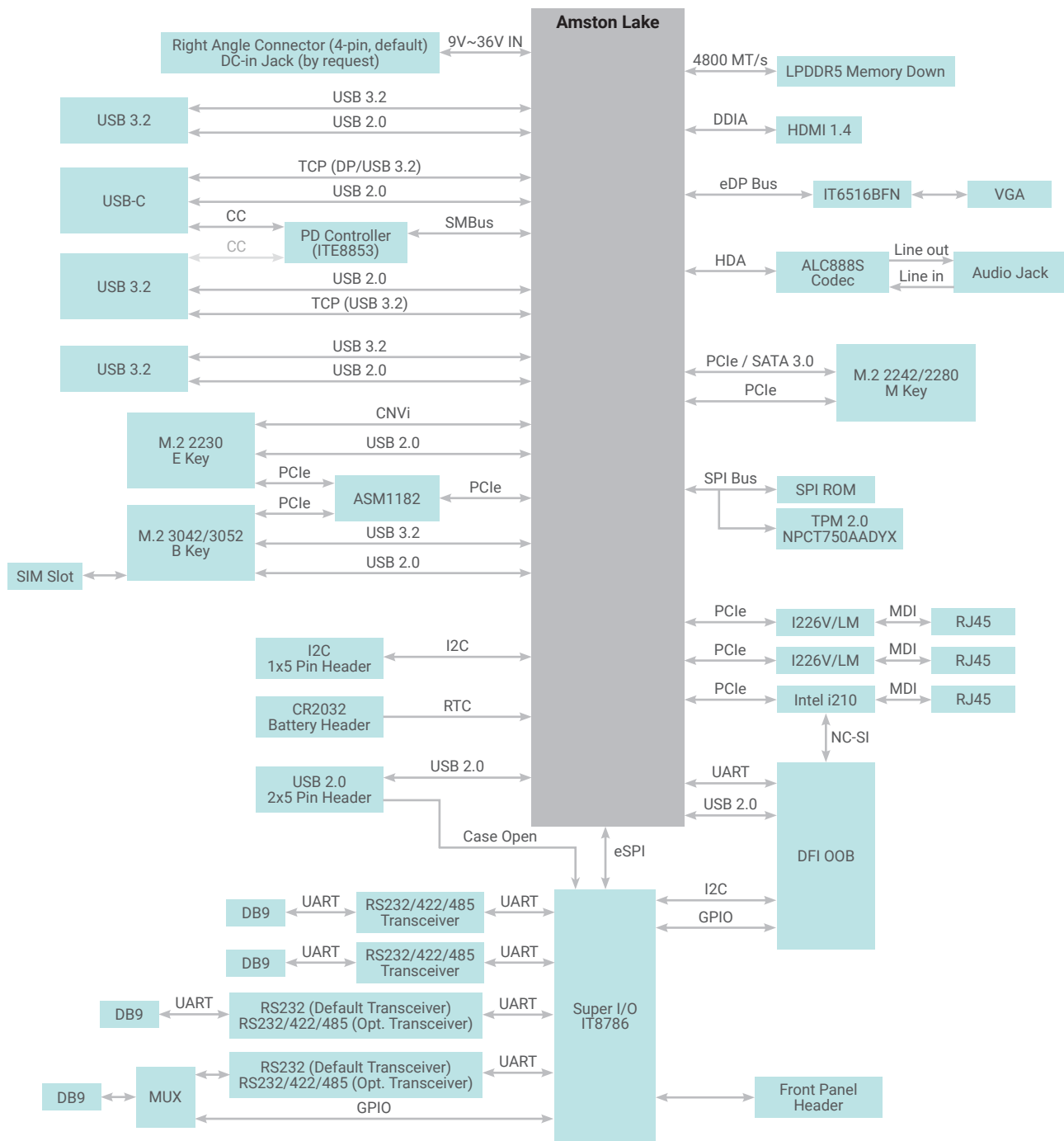


Rear View



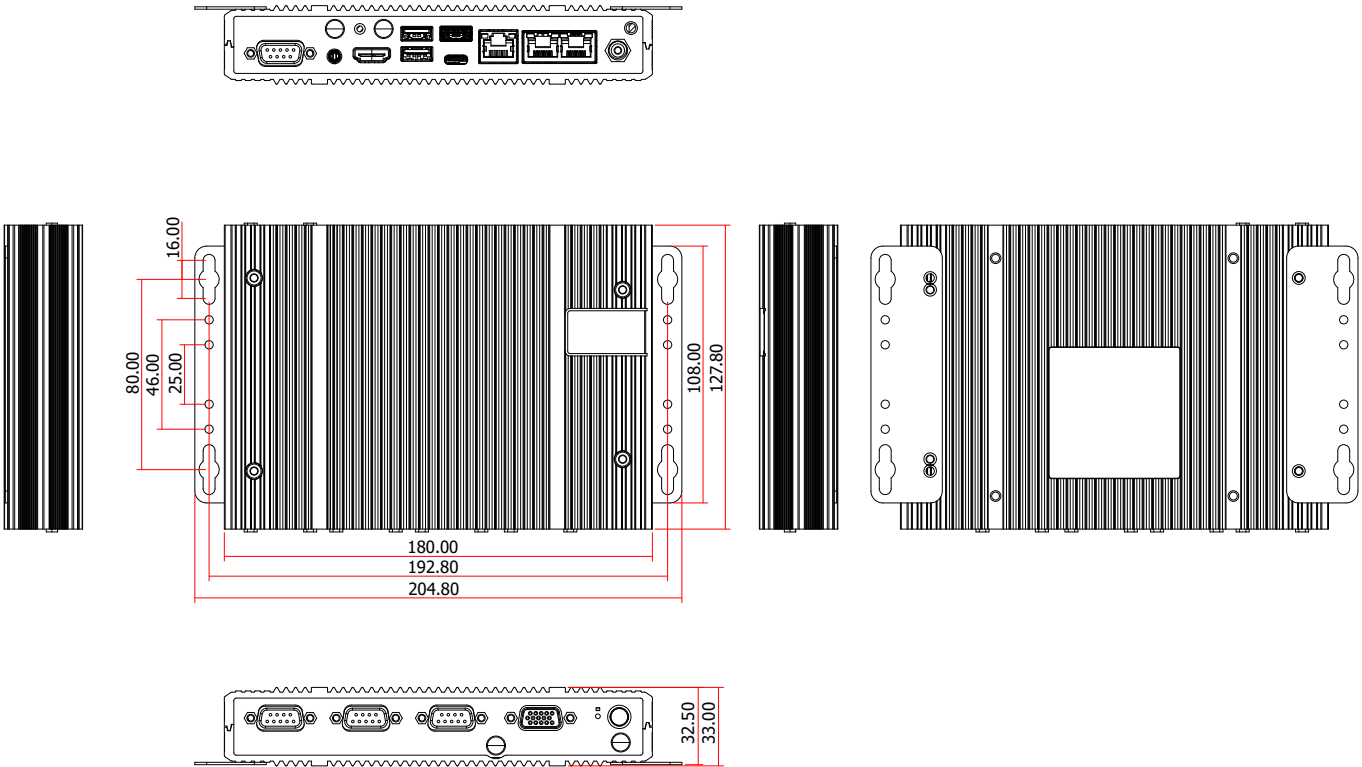
Desire For Innovation

BLOCK DIAGRAM



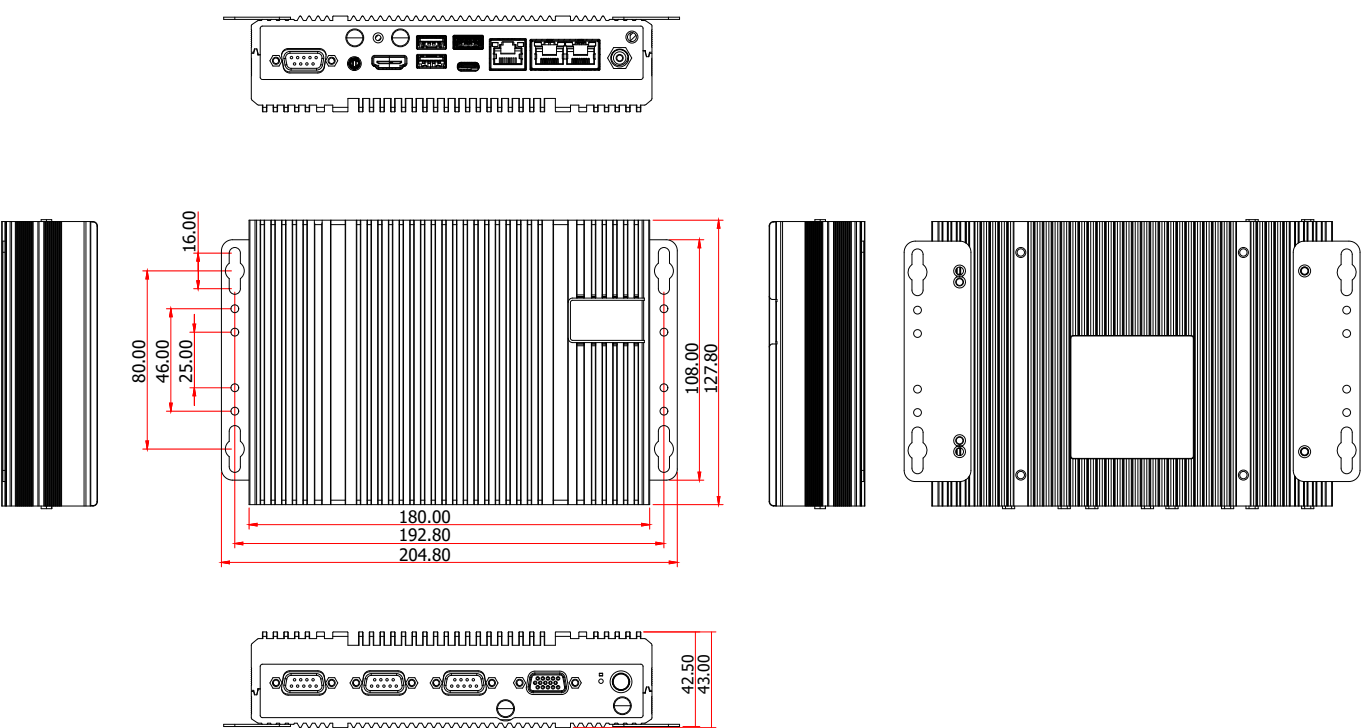
DIMENSIONS: EC700-ASL

System Height = 33mm



DIMENSIONS: EC710-ASL

System Height = 43mm



SPECIFICATION

Model Name		EC700-ASL
SYSTEM	Processor	Intel® Industrial RE Series Intel® Processor X7433RE 4 Cores, 1.5GHz to 3.4GHz Intel® Processor X7213RE 2 Cores, 2.0GHz to 3.4GHz Intel® Processor X7211RE 2 Cores, 1.0GHz to 3.2 GHz Intel® Processor X7835RE 8 Cores, 1.3GHz to 3.6GHz *TCC default disable in BIOS setting
	Memory	8GB/16GB LPDDR5 4800 Memory down
	BIOS	AMI SPI 256Mbit (supports UEFI boot only)
	Controller	Intel® UHD Graphics
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 VGA 1 x HDMI 1.4 1 x USB-C (DP1.2 Alt. Mode)
STORAGE	Internal	1 x M.2 2280 M key (PCIe Gen3/SATA) *A heatsink & a thermal pad are required.
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)
AUDIO	Audio Codec	REALTEK ALC888S
ETHERNET	Controller	2 x Intel Ethernet controller i226 2.5GbE (TSN support by project) 1 x Intel Ethernet controller i210 GbE (support DFI OOB function)
LED	Indicators	1 x Power LED 1 x Storage LED
FRONT I/O	Serial	COM 1/2: RS232/422/485 COM 3: RS232
	Antenna Hole	2 x antenna holes
	Display	1 x VGA
	Button	1 x Power Button 1 x Reset Button
REAR I/O	Ethernet	2 x 2.5GbE RJ45 1 x GbE RJ45 (support DFI OOB)
	Serial	COM 4: RS232/DIO
	USB	3 x USB 3.2 type A 1 x USB-C 3.2
	Display	1 x HDMI
	Audio	1 x 3.5mm Line out/Mic In
	Antenna Hole	2 x antenna holes
WATCHDOG TIMER	Output & Interval	System reset, programmable via software from 1 to 255 seconds
SECURITY	TPM	TPM 2.0 support
POWER	Type	Wide range 9~36VDC
	RTC Battery	RTC battery CR2032
	Connector	2.5mm DC Jack
OS SUPPORT	Microsoft	Windows® 10 IoT Enterprise Windows® 11 IoT Enterprise
	Linux	Ubuntu 22.04
ENVIRONMENT	Operating Temperature	-40 to 60°C with 0.2m/s air flow
	Storage Temperature	-40 to 85°C
	Relative Humidity	10 to 90% RH (non-condensing)
MECHANICAL	Construction	Aluminum + Metal
	Mounting	Wall mount/VESA Mount/DIN-Rail
	Dimensions (W x H x D)	180 x 33 x 127.8 mm
	Weight	TBD
STANDARDS AND CERTIFICATIONS	Shock (During Operation)	30G, IEC-60068-2-27 MIL-STD-810G
	Vibration (During Operation)	3 Grms, IEC 60068-2-64 MIL-STD-810G
	Certifications	CE, FCC, RoHS, UKCA

*PCIe: PCIe2 support by project

ORDERING INFORMATION

Model	Part Number	Sys Height	CPU	Mry. Down	Operating Temp.	I/O			Display	Expansion	DFI OOB
						USB	LAN	Serial			
EC700-ASL	750-EC7005-400G	33mm	x7433RE	16GB	-40 to 60°C	3 USB-A 1 USB-C	2 2.5GbE 1 GbE	2 RS232/422/485 1 RS232 1 RS232/DIO	• 1 HDMI • 1 VGA • 1 DP 1.2 Alt. Mode via USB-C	• M.2 M key: PCIe/SATA (auto detect) • M.2 B Key: USB3.0/USB2.0/PCIe • M.2 E Key: USB2.0/PCIe	Yes
	750-EC7005-000G		X7835RE								

*One more display output via USB-C by Opt.

**EC710-ASL with 43mm system height by project support.

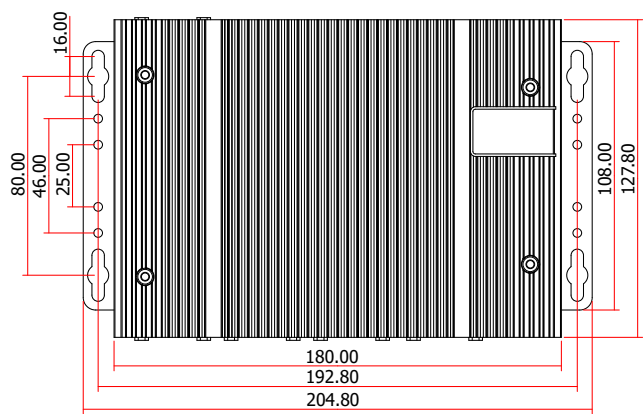
OPTIONAL ITEMS

Optional Items	Part Number	Description
Adapter	671-106012-000G	60W 12V inlet C14, locable DC Jack 5.5/2.5mm, cable length 1500mm
Power Cord	332-700010-201G	Power Cord US 3pin 1830mm Length
	A81-004003-000G	Power Cord EU 2pin 1830mm Length
	A81-000001-000G	Power Cord China 3pin 1830mm Length
	A81-000046-000G	Power Cord JP 3pin 1830mm length (with DFI PSE logo)
Mount Kits	761-EC7004-000G	EC700-ASL Din Rail Kit for 33mm height chassis
	761-EC7004-100G	EC700-ASL/EC710-ASL wall mount Kit
	761-EC7004-200G	EC700-ASL/EC710-ASL VESA mount Kit
	761-EC7004-300G	EC710-ASL Din Rail Kit for 43mm height chassis

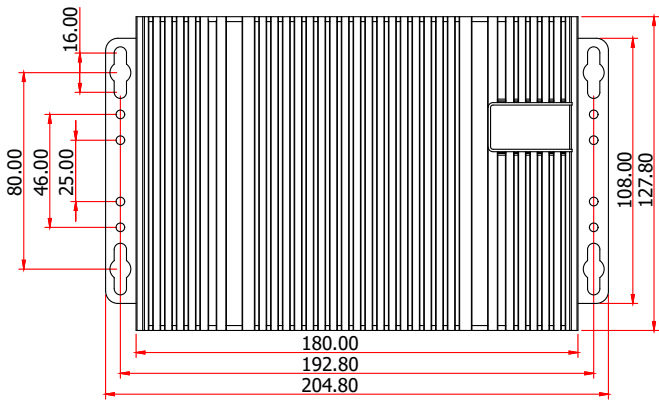
PACKING LIST

• 1 System unit

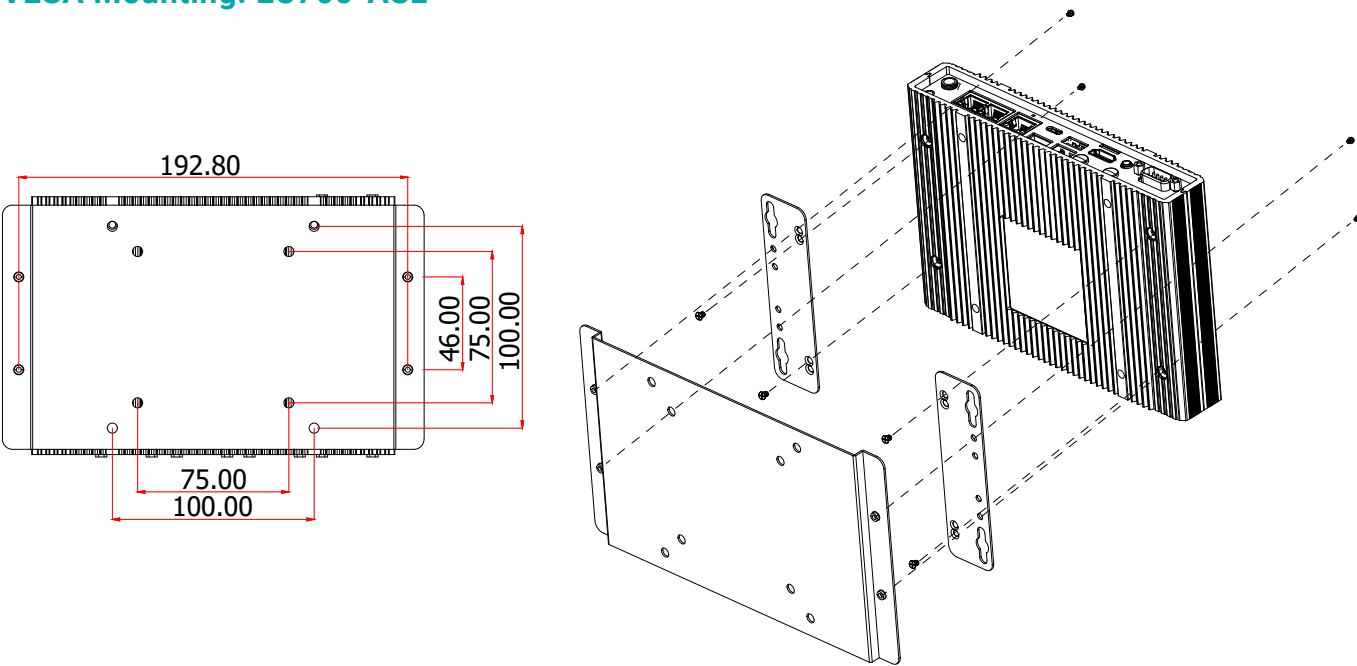
Wall Mounting: EC700-ASL



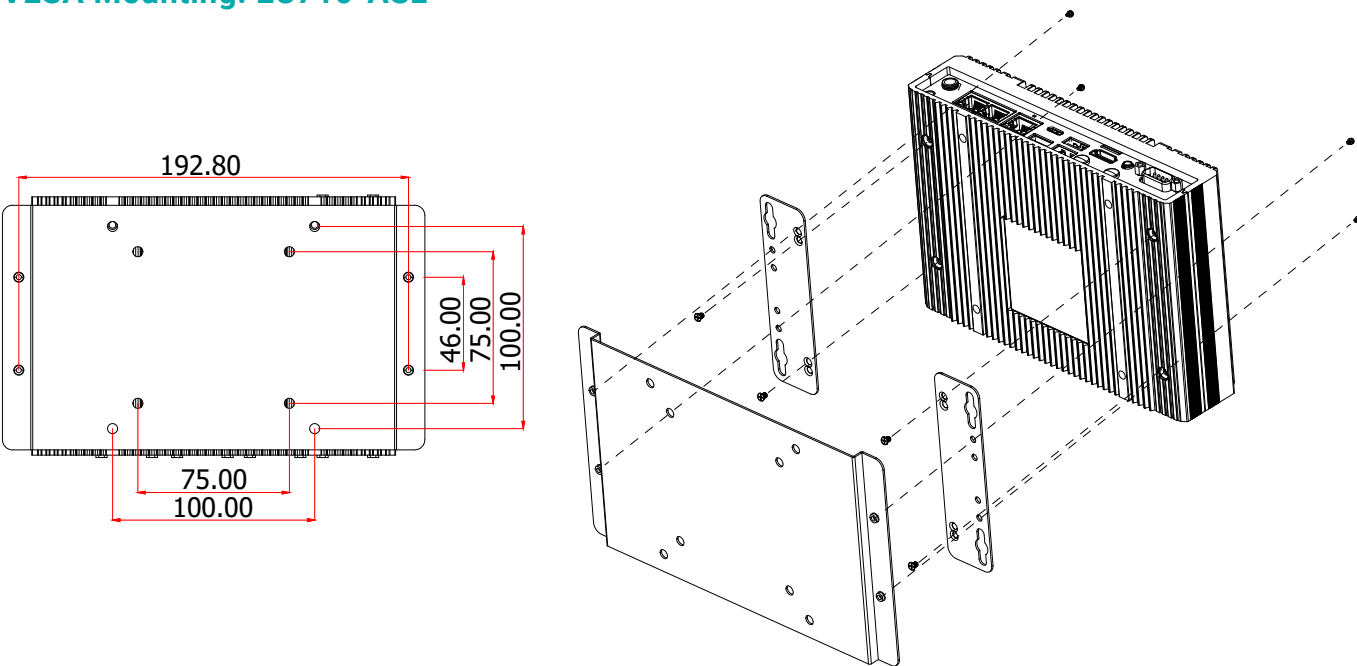
Wall Mounting: EC710-ASL



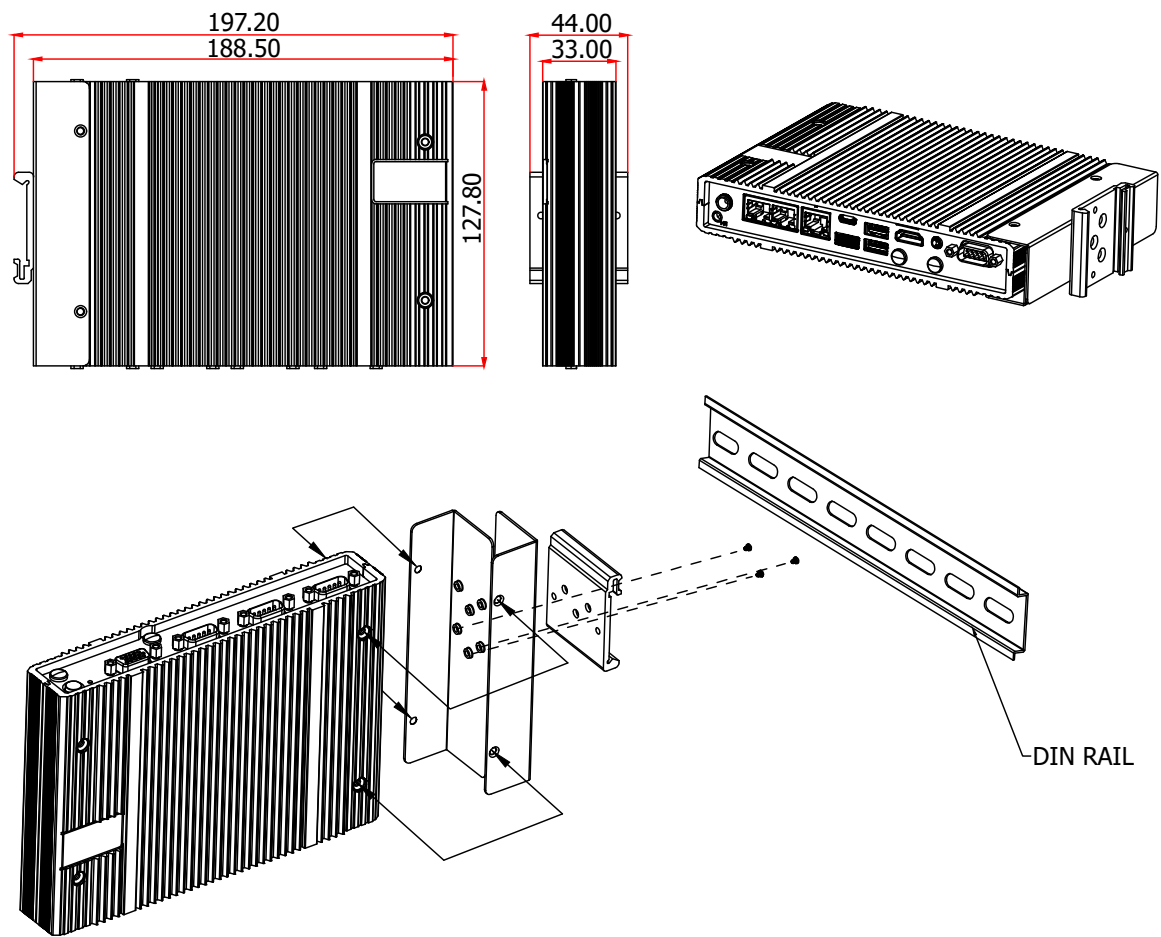
VESA Mounting: EC700-ASL



VESA Mounting: EC710-ASL



DIN Rail Mounting: EC700-ASL



DIN Rail Mounting: EC710-ASL

