

ICS-I331

Industrial Grade Cyber Security Appliance With Intel® Atom® Processor



Specifications

Platform

CPU	Intel® Atom® x7835RE/x7433RE/x7211RE
Chipset	SoC
BIOS	AMI SPI Flash BIOS

System Memory

Technology	DDR5 4800Mhz, IBECC SODIMM
Max. Capacity	16GB

Ethernet

Interface	2x GbE RJ45/SFP (LAN5 w/ 100M) 4x 2.5GbE RJ45
Speed	10/100/1000 Mbps 10/100/1000/2500 Mbps
Bypass	1 pair Gen3 for 2.5GbE (LAN1/LAN2)

I/O Interface

Reset Button	1
Serial	1x RJ45 Console
Display	2x DP
USB	1x USB3.0, 2 x USB 2.0
Antenna	4x Antenna for 5G Sub6 2x Antenna for WiFi 6E

Storage

eMMC	eMMC up to 256GB (Reserved by request for OEM)
Onboard Slot	1x M.2(SATA) 2280 B-Key

Expansion

mini-PCIe/M.2	1x M.2 2230 E-Key for WiFi 6/6E (BT) 1x M.2 3042/3050/3052 B-Key for LTE/5G
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Features

- Intel® Atom® X7000 Series Processors (Amston Lake)
- DDR5 SODIMM Up to 16GB
- 4x 2.5GbE RJ45, 2x GbE SFP/RJ45 (by SKU)
- 1x USB3.0 & 2 x USB 2.0, 2x DP, 1x Console
- 1x M.2 2230 E-Key for WiFi 6/6E (BT)(by SKU), 1x M.2 3042/3050/3052 B-Key for LTE/5G
- 2x Nano-SIM for LTE/5G module
- Wide range of operating temperature -40~70°C

SIM Card Slot	2x Nano-SIM for LTE/5G module
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Miscellaneous

Watchdog	Yes
Internal RTC with Li Battery	Yes
TPM	Onboard TPM 2.0

Cooling

Processor	Fanless, Passive CPU Heatsink
System	IP50 (Optional IP54 Cable shroud)

Environmental Parameters

Temperature	-40°C~70°C Operating
Humidity (RH)	5~90% Operating 5~95% Non-Operating

System Dimensions

WxDxH	67 x 193 x 200 mm
Weight	2.95kg
Mounting	DIN-rail (default) Wall mount/VESA mount (optional)

Power

Type/Watts	120W or 150W (w PoE)
Input	12 - 48V

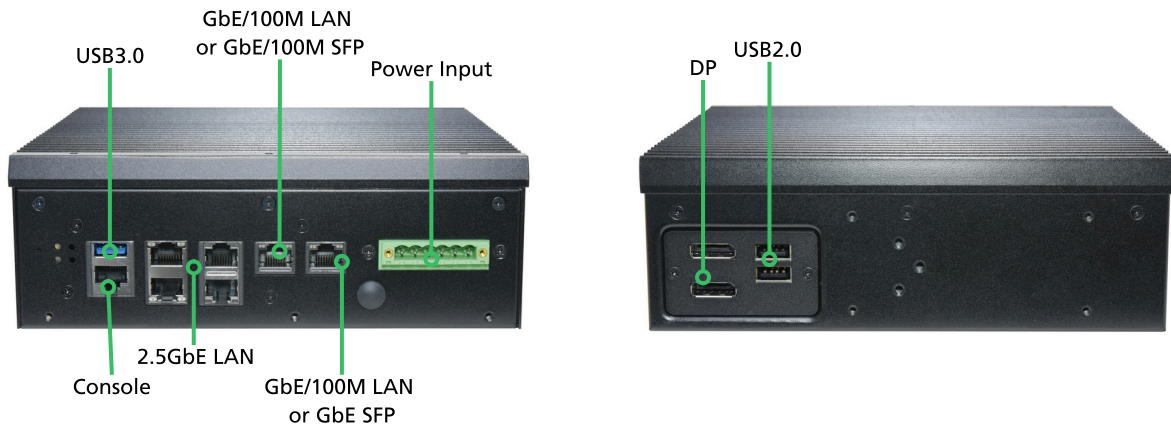
OS Support

Linux	Ubuntu 24.04
Windows	Windows 11, Win 10 IoT

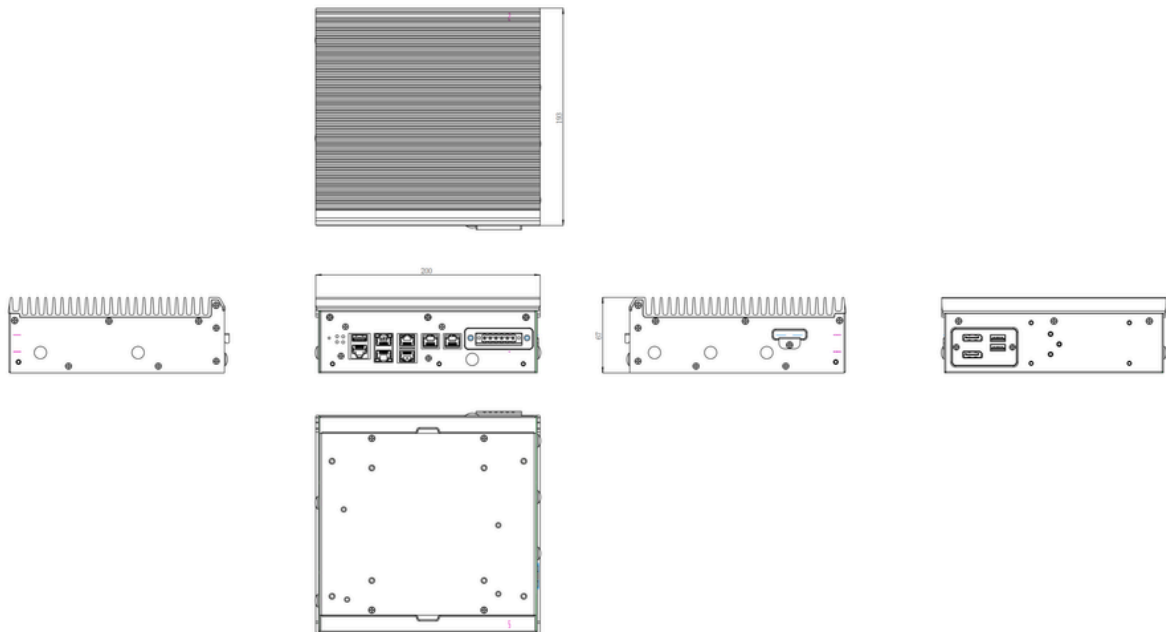
Certification

EMC	CE/UKCA, FCC Class A, RoHS
Safety	UL+CB 62368-1, C1D2 (SKU B)

Product I/O View



Dimensions (WxDxH): 67 x 193 x 200 mm



Ordering Information

SKU	CPU	Memory	Storage	Ethernet	Wireless	I/O	Power
ICS-I331A	Intel® Atom® x7835RE 8C/8T	1x DDR5 SO-DIMM up to 16GB	1x M.2 2280 B-Key (SATA)	4x 2.5GbE RJ45 (with 1 pair bypass) 2x GbE/100M RJ45	1x M.2 3042/3050/3052 B-Key for LTE/5G Sub6	1x Console 1x USB 3.0 2x USB 2.0 2x DP	Dual DC 12~48V
ICS-I331B				4x 2.5GbE RJ45 (with 1 pair bypass) 1x GbE SFP 1x GbE/100M SFP			
ICS-I331C	4x 2.5GbE RJ45 (with 1 pair bypass) 2x GbE/100M RJ45						
ICS-I331D	4x 2.5GbE RJ45 (with 1 pair bypass) 1x GbE SFP 1x GbE/100M SFP						
ICS-I331E	4x 2.5GbE RJ45 1x GbE/100M RJ45			1x M.2 3042/3050/3052 B-Key for LTE/5G Sub6			
ICS-I331F	4x 2.5GbE RJ45 1x GbE/100M SFP			1x M.2 2230E-Key for Wi-Fi 6/6E (BT)			