



■ Features

- 11th Gen Intel® Core™ i CPU (Up to i7-1185GRE)
- 2x DDR4 3200 IBEC SO-DIMM, Max. 64GB
- 4x PoE+, 2x Ethernet Ports, 4x COM Ports (option for 2x CAN 2.0 A/B), 4x USB 3.0
- Intel® Iris® Xe Graphics, 2x HDMI, 4x DI & 4x DO
- 1x M.2 B-Key w/ Nano SIM For 5G, 1x M.2 E-Key For WiFi, 1x mSATA

■ Specifications

Processor System

CPU	11th Gen Intel® Core™ i (Up to i7-1185GRE), Codenamed TigerLake-UP3
Frequency	PBF1.80GHz, MaxTurbo to 4.4GHz
Core Number	4

Fanless

Yes

Memory

Technology	DDR4 3200 IBEC SO-DIMM
Max. Capacity	64GB (default 8GB)
Socket	2x 260-pin SO-DIMM

Graphic

Controller	Intel® Iris® Xe Graphics
HDMI	2

Audio

Codec	TSI 92HD73E
Interface	1x Line-in, 1x Line-out

Ethernet

Controller	Intel i226IT
Speed	2.5Gbps/1Gbps/100Mbps
Interface	6x 2.5Gbps RJ45 (4x RJ45 For PoE+, Total PoE Budget of 60W)

Storage

Type	mSATA
Installation	1x mSATA
Type	SATA
Installation	1x SATA 2.5" SSD/HDD

I/O

Serial Port	2x DB9 RS232/422/485 (COM1,COM2) Serial Ports 1x Terminal Block isolated (COM3,COM4), CAN 2.0 A/B (optional)
Digital I/O	4x Isolated DI, 4x Isolated DO
USB 3.0	4x Type A
Power/Reset Button	1x Power Button 1x Reset Button
Remote Power Switch	1x 2-pin Remote Power Switch
LED	Power/Storage

Expansion Interface

PCIe	1x PCIe 3.0 x1 FHHL w/ PCIe x4 connector
M.2	1x B-Key 3042/3050/3052 w/ 2x Nano-SIM For 5G 1x E-Key 2230 for WiFi-6

Watchdog Timer

Watchdog Timer 1~255 Level Time Interval System Reset,
Software Programmable

Power

Power Type	DC Source
Power Supply Voltage	+24VDC Typically
Connector	1x 2-pin Terminal Block
Power Consumption (Idle)	29.6W
Power Consumption (Full Load)	91.6W (Without PCIe*4 LAN Card)

Environment

Operating Temperature	-40°C~70°C w/ LTE -40°C~75°C w/o LTE
Storage Temperature	-40°C~70°C
Relative Humidity	5%~95%
Vibration	IEC 60068-2-64, 0.5Grms, Random 5 ~500Hz, 30 Mins/Axis

Mechanical

Dimension (W x D x H)	270 x 220 X 86mm
Construction	Aluminum Extrusion & SGCC
Weight	3 kg
Mounting	Wallmount, VESA (optional)

Driver Support

Microsoft Windows	Win 10 IoT
Linux	Dabian 11 Pre-install

Certification

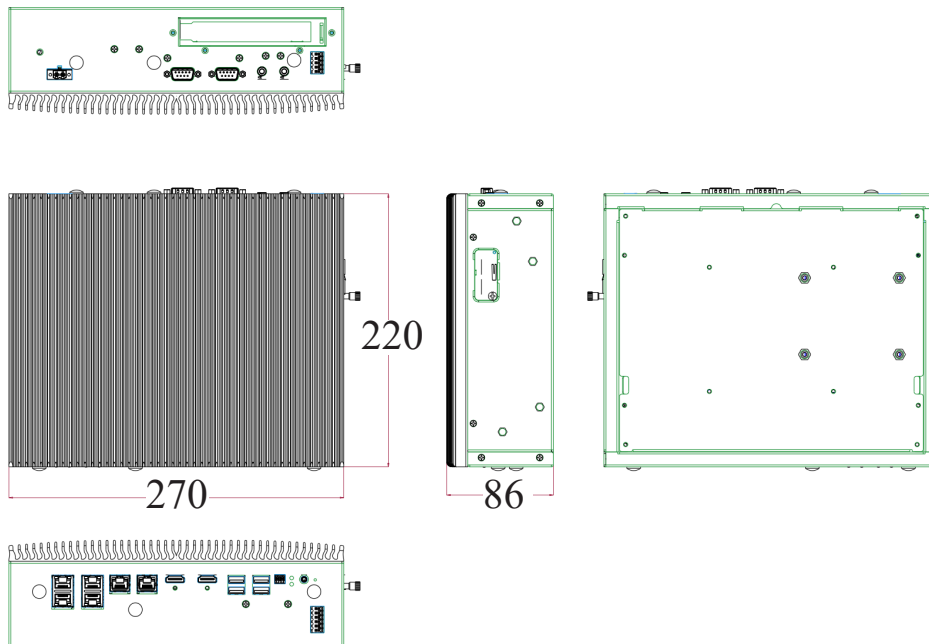
EMC	CE/FCC, Class A / UL
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Product I/O View



- | | | |
|---------------------|-----------------------|---|
| A PoE x4 | E PS-ON | I COM 3/4 (option for CAN 2.0 A/B) |
| B LAN x2 | F Power On/Off | J LINE-in/LINE-out |
| C HDMI x2 | G Reset Button | K COM 1/2 |
| D USB 3.0 x4 | H DIO | L Power-in |

Dimensions (W x D x H) 270 x 220 x 86 mm



Ordering Information

IoT-I531A 11th Gen Intel® Core i CPU (up to i7-1185GRE), 2x DDR4 3200 IBECC SO-DIMM (Default 8GB), 4x PoE+, 2x Ethernet Ports, 4x COM ports (option for 2x CAN 2.0 A/B), 4x USB 3.0, Intel® Iris Xe Graphics, 2x HDMI, 4x DI & 4x DO, 1x B-Key 3042/3050/3052 w/ 2x Nano-SIM for 5G, 1x E-Key 2230 for WiFi-6, 1x mSATA Socket, 1x 2.5" Storage Bay

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