

ITA-260

11th Generation Intel® Core™ Processor Fanless System for Wayside & Roadside Applications



Features

- Industrial-grade DIN rail fanless wayside & roadside appliances
- 11th Generation Intel® Core™ processor family
- 2 x SO-DIMM , up to 64G
- Supports 6 GbE (4 x RJ-45 & 2 x SFP)
- Supports 4 USB (2 x USB3.0 & 2 x USB2.0), 2 COM (isolated)
- 1 x 2.5" SATA SSD bay (easy swap)
- Supports LAN surge \pm 2KV
- Supports Time-Sensitive Technology (TSN)
- Wide operating temperature -40 ~ 60 °C
- Compliant: EN50121-4
- Supports 9-48V wide-range DC input



Introduction

ITA-260 is a fanless edge AI computing platform for intelligent transportation applications, especially for wayside monitoring on railway networks such as electricity power monitoring, railway track status monitoring, undercarriage track inspection, and wayside surveillance. ITA-260 helps railway operators achieve diagnostic maintenance, predictive maintenance, and remote management, greatly reducing management costs.

The featured highlights include

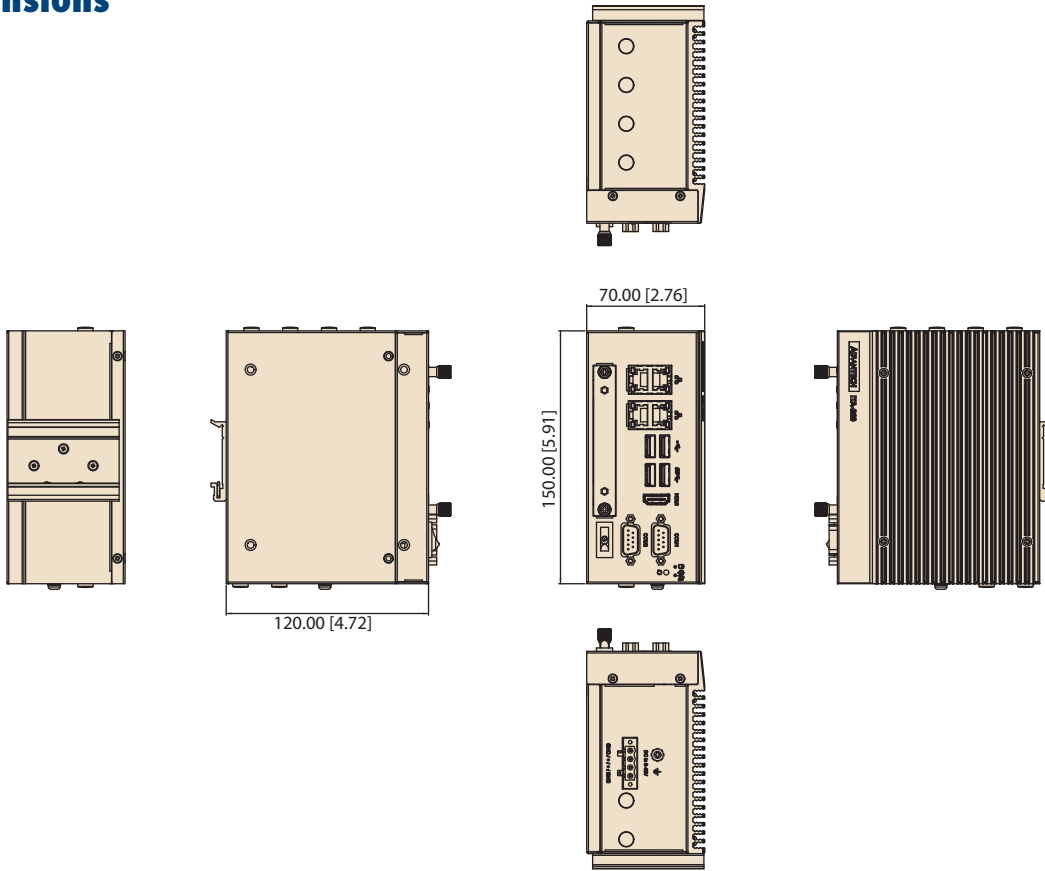
1. Compact size design for easy installation and maintenance in space-limited environments.
2. Supports the latest 11th Generation Intel® Core™ i Processor with improved performance.
3. Ruggedized design, withstand shock and vibration is ideal for harsh environments.
4. High expandability for diverse customization.

Specifications

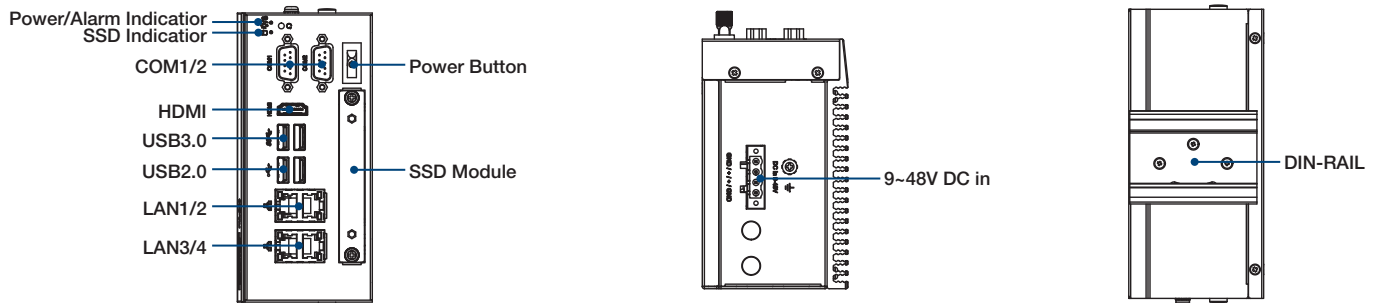
Processor System	CPU	11th Generation Intel® Core™ i3/i5/i7 Processor
	Max. Processor Base Frequency	3.0GHz
	L2 Cache	12MB
	BIOS	AMI EFI 16 Mbit
Memory	Technology	Dual channel DDR4 2400/2666/3200 MHz SO-DIMM/Wide temp
	Socket	2 x 266-pin SODIMM
	Capacity	SO-DIMM (up to 64GB with 2 slots)
Ethernet	Interface	10/100/1000 Mbps
	Controller	2 x Intel I225-LM 2 x Intel i211AT 2 x Intel I210IS
	TSN	Supports controller I225-LM
	Connector	4 x RJ-45 & 2 x SFP
	Storage	2.5" SSD
I/O Interface	mSATA SSD	1 x mSATA Slot
	SATA	1 x SATA
	USB	2 x USB3.0 2 x USB2.0
	LAN	4 x RJ-45 & 2 x SFP
	Serial port	2 x DB9 RS-232/422/485
	Display	1 x HDMI
Expansion	Expansion slots	1 x Mini PCIe (on the motherboard) 2 x M.2 (1 x M.2 B key for 2280 & 1 x M.2 M key for 2280) or 2 x Mini PCIe (on the extended board) 1 x nano SIM card slot
	Power	Input DC 9-48V Connector Phoenix contact 4-pin connector w/ lock
Environment	Operating Temperature	-40 ~ 60 °C with 11th Generation Intel® Core™ Processor i7-1185GRE/i3-1115GRE
	Non-operating Temperature	-10 ~ 60 °C with 11th Generation Intel® Core™ Processor i7-1185G7E/i5-1145G7E/i3-1115G4E
	Humidity	-40 ~ 85 °C
Mechanical	Mounting	5 ~ 95%
	System Cooling	DIN Rail/Wall Mount
	Dimensions (W x H x D)	Fanless
	OS	70 x 150 x 120 mm/100 x 150 x 120 mm
Certification	Windows	Windows 10
	Linux	Linux (Ubuntu)
Certification	EMC	EN50121-4, CE/FCC Class-B, CCC
	Safety	EN50121-4/UL/CB/CCC

Dimensions

Unit: mm

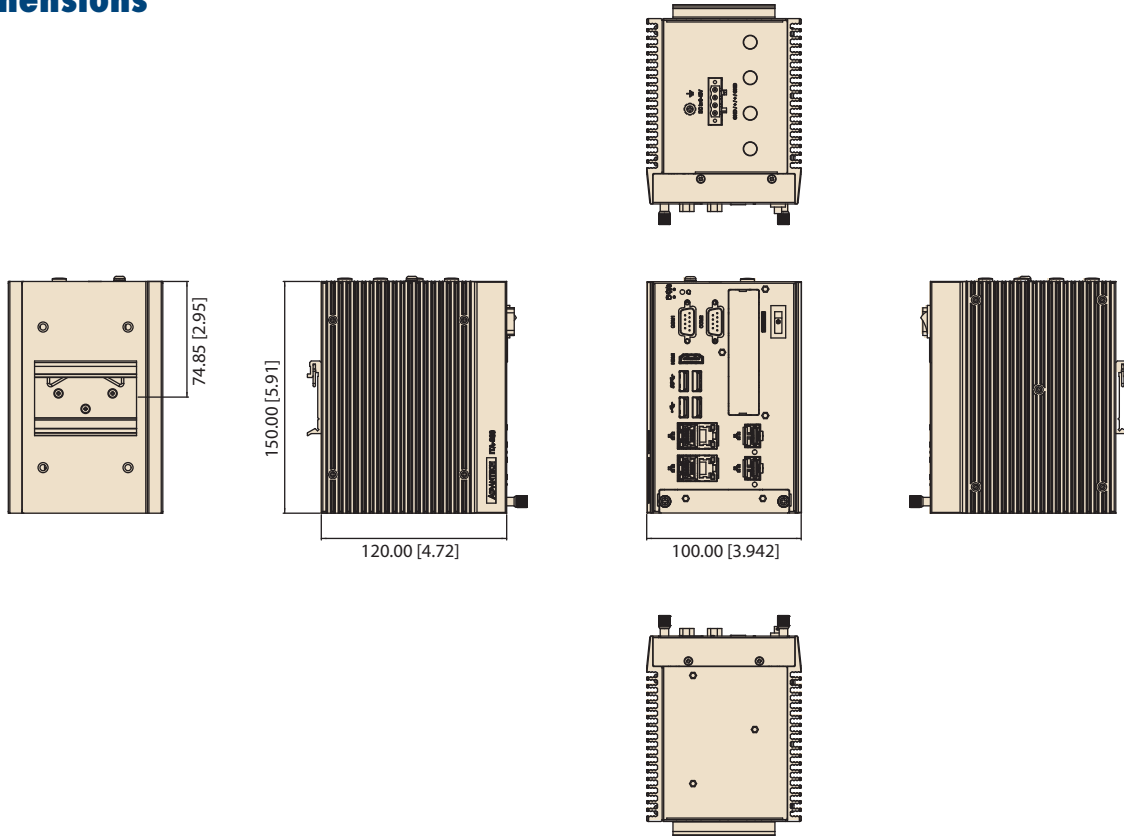


I/O View

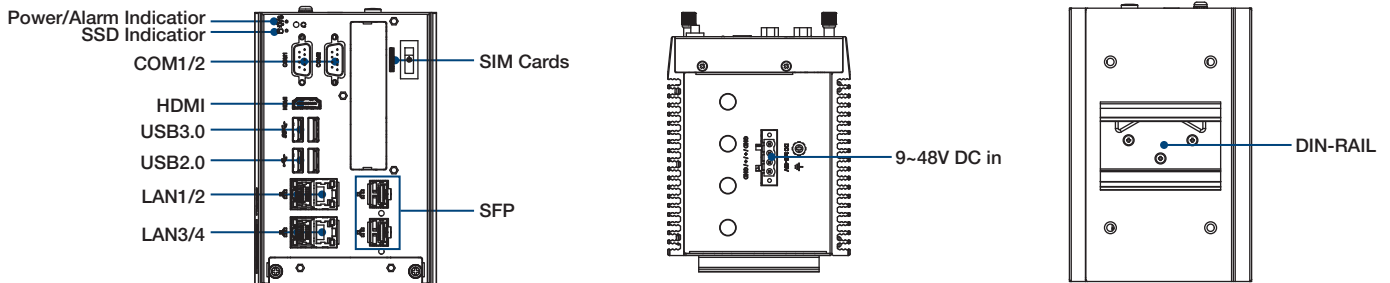


Dimensions

Unit: mm



I/O View



Ordering Information

Part Number	CPU	SO-DIMM slots (DDR4)	LAN (RJ-45+SFP)	USB3.0 + USB2.0	COM	HDMI	MiniPCIe (extended board)	M.2	SSD	Msata/MiniPCIe (motherboard)	Operation temperature
ITA-260V1-00A1	I3-1115GRE	2	4	2+2	2	1	0	0	1	1	-40 ~ 60 °C
ITA-260V1-10A1	I7-1185GRE	2	4	2+2	2	1	0	0	1	1	-40 ~ 60 °C
ITA-260V1-01A1	I3-1115GRE	2	4+2	2+2	2	1	2	2	1	1	-40 ~ 60 °C
ITA-260V1-11A1	I7-1185GRE	2	4+2	2+2	2	1	2	2	1	1	-40 ~ 60 °C
ITA-260V1-00B1	I3-1115G4E	2	4	2+2	2	1	0	0	1	1	-10 ~ 60 °C
ITA-260V1-10B1	I7-1185G7E	2	4	2+2	2	1	0	0	1	1	-10 ~ 60 °C
ITA-260V1-20B1	I5-1145G7E	2	4	2+2	2	1	0	0	1	1	-10 ~ 60 °C