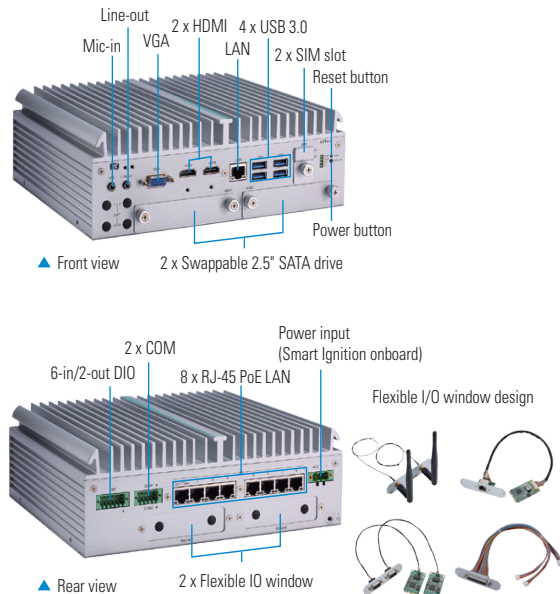


UST510-52B-FL NEW

Fanless Embedded System with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3, Celeron®, Pentium®, and Xeon® Processor for Vehicle PC

Features

- CE, FCC and E-Mark certified
- LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3, Celeron®, Pentium®, and Xeon® processor (up to 65W) with Intel® C246 (Coffee Lake)
- Fanless and wide operating temperatures from -40°C to +70°C
- Up to 8 GbE PoE port by RJ-45 connector type
- Supports M.2 Key B and M.2 Key E for wireless communication module
- Intelligent solution of Smart Ignition for power on/off schedule, vehicle battery protection and different power mode
- Convenient 2 hot-swappable HDD/SSD slots and flexible I/O windows



Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, supports up to IP40
CPU	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Celeron®, Pentium®, and Xeon® processor (CPU TDP max. up to 65W)
Chipset	Intel® C246
System Memory	2 x 260-pin DDR4-2666 ECC/non-ECC SO-DIMM, up to 64GB
BIOS	AMI
TPM	TPM 2.0
System I/O Outlet	Serial Display Audio Ethernet USB DIO Others
Expansion Interface	1 x Full-size Rev.1.2 PCI Express Mini Card slot (1 x mSATA/USB/PCIe) 1 x Half-size Rev.1.2 PCI Express Mini Card slot (1 x mSATA/USB) 1 x M.2 3050/3042 B-key 1 x M.2 2230 A & E-key
Storage	SATA Drive mSATA
Watchdog Timer	255 levels, 1 to 255 sec.

Power in	Power Supply	General use: 1 x Terminal block, 9 to 36 VDC Vehicle: 1 x Terminal block, 12/24 VDC with smart ignition
	Power Consumption	DC 24V@6.91A
PoE (PSE, Power Sourcing Equipment)	PoE Performance	Up to 8 x RJ-45 output max. 90W supports PoE & PoE+ • PoE (802.3af 15.4W/port) • PoE+ (802.3at 30W/port)
System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power 2 x Programmable	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral*	
Humidity	0% to 95%, non-condensing	
Dimensions	240 mm (9.45") (W) x 210.5 mm (8.28") (D) x 82.2 mm (3.23") (H) *Without wall mount	
Mounting	Wall mount	
Weight (net/gross)	4.16 kg (9.17 lb)/4.82 kg (10.62 lb)	
Certifications	CE (Class A), FCC (Class A), E-Mark (E13) certified	
EMC	CE/FCC	EN 55032 (Class A), EN 55035, FCC part 15 B (Class A)
	E-Mark	ECE-R10
Vibration Endurance	3 Grms w/ SSD (5 to 500Hz, X/Y/Z direction; random, operating) 1 Grms w/ HDD (5 to 500Hz, X/Y/Z direction; random, operating) 2.5 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating) MIL-STD-810G, Method 514.6C-VI Category 4 compliant	
EOS Support	Windows® 10 64-bit, Linux	
Software Support	AMS.AXView	

*Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Ordering Information

Standard

UST510-52B-FL-A (P/N: E274510100)	Fanless embedded system with 9th/8th gen Intel® desktop processor (LGA1151), C246, VGA, 2 HDMI, 6-in/2-out DIO, 2 COM, 4 USB 3.0, 8 RJ-45 PoE GbE LAN, 2 SATA drive and ACC ignition, and TDC*
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*TDC: terminal block DC-in connector, DC voltage input

Optional

Anti-Vibration Kit (P/N: 8816N50080AE)	For in-vehicle/rolling stock which improves HDD stability in NVR applications	
Communication Modules	8816N50030AE	AP12356 w/WT Wi-Fi kit for tBOX/UST SFP (E)
	8816N810DAOE	GPS kit M8U w/UDR for tBOX SFP(E)
	88160620BAOE	LTE SIMCOM SIM7100 (EU) for tBOX/UST SFP(E)
	8816N5000A0E	LTE SIM7100JC kit for tBOX500, JPN SFP (E)
	E9C6300014	Wi-Fi M.2 2230 QCNFA364A 802.11AC+BT5/WT

*Specifications and certifications may vary based on different requirements.

Power Protection

OCP (over current protection)

OVP (over voltage protection)

UVP (under voltage protection)

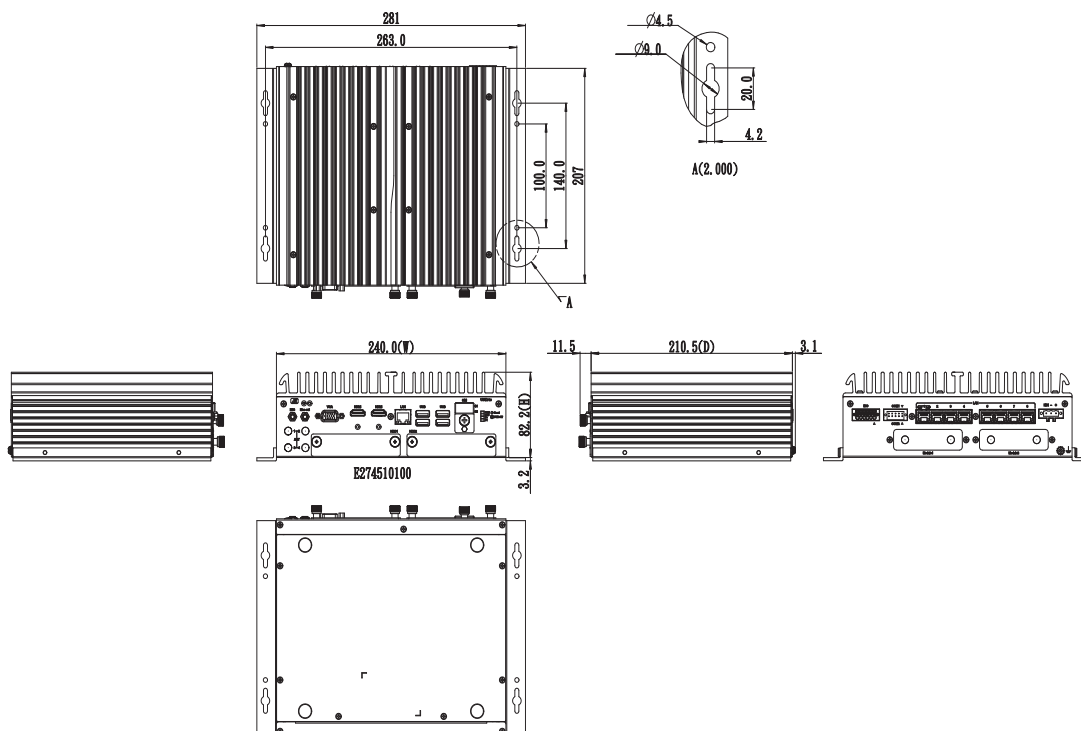
RPP (reverse polarity protection)

ISO 7637-2 pulse 1, 2a, 2b, 3a, 3b, 4 (vehicle version)

Setting for in-vehicle battery protection: system will be automatically turned down at low voltage level

Setting for ignition control: system will activate a counter while in-vehicle battery at low voltage, ACC-ON delay and shut down delay

Dimensions



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660