UST510-52B-FL

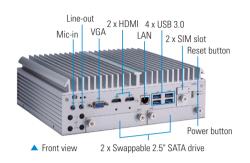


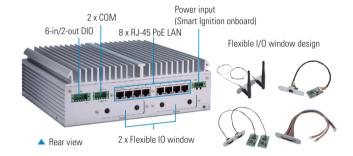


Fanless Embedded System with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3, Celeron®, Pentium®, and Xeon® Processor for Vehicle PC

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 ex	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	Intel® C246		
System Memory	2 x 260-pin l	2 x 260-pin DDR4-2666 ECC/non-ECC SO-DIMM, up to 64Gl		
BIOS	AMI	AMI		
TPM	TPM 2.0			
System I/O Outlet	Serial	2 x terminal block RS-232/422/485 (4-wire		
	Display	1 x VGA (supports up to 1920 x 1200 @60Hz)		
	Adia	2 x HDMI (supports up to 4K/2K @60Hz)		
	Audio	1 x Mic-in, 1 x Line-out		
	Ethernet	Front side: • 1 x RJ-45 GbE LAN (Intel® i211-AT) Rear side (flexible LAN selection): • 8 x RJ-45 GbE LAN (Intel® i211-AT)		
	USB	4 x USB 3.0		
	DIO	1 x Terminal block isolated 6-in/2-out DIO (isolation voltage: 2 kV)		
	Others	1 x Reset button 4 x Antenna opening 2 x External accessible SIM card socket 2 x Flexible I/O window		
Expansion Interface	(1 x mSATA) 1 x Half-size (1 x mSATA) 1 x M.2 305	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	2 x 2.5" 9.5 mm swappable SATA drive with 2 SATA, Intel® RAID 0/1 supported		
	mSATA	2 x mSATA (occupied 2 x PCI Express Mini Card slot)		
Watchdog Timer	255 levels	255 levels, 1 to 255 sec.		

Power in	Power	General use: 1 x Terminal block, 9 to 36 VD		
	Supply	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°	-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	· · · · · · · · · · · · · · · · · · ·		
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^{*}Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Ordering Information

Standard	
UST510-52B-FL-A	Fanless embedded system with 9th/8th gen Intel® desktop
(P/N: E274510100)	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*

^{*}TDC: terminal block DC-in connector, DC voltage input

Optional

Optional		
Anti-Vibration Kit	For in-vehicle/rolling stock which improves HDD stability in NVR	
(P/N: 8816N5008A0E)	applications	
Communication	8816N5003A0E AP12356 w/WT Wi-Fi kit for tBOX/UST SFP (E)	
Modules	8816N810DA0E GPS kit M8U w/UDR for tBOX SFP(E)	
	88160620BA0E 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

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



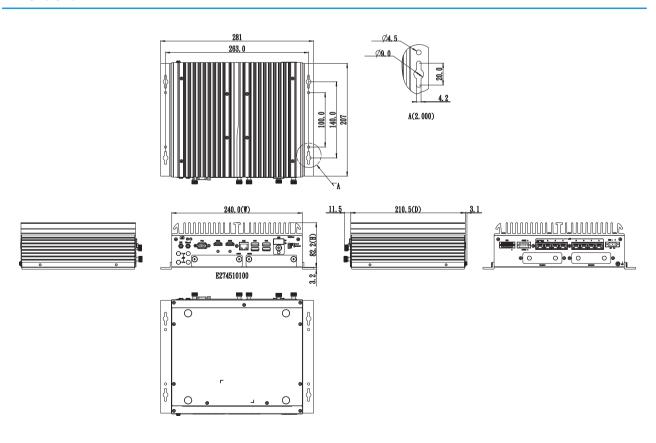
IP SYSTEMES

8 rue du Colonel Chambonnet - BP67 69672 BRON Cedex

Tel.: 04 72 14 18 00 Fax: 04 72 14 18 01

www.ip-systemes.com-info@ip-systemes.fr

Dimensions



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