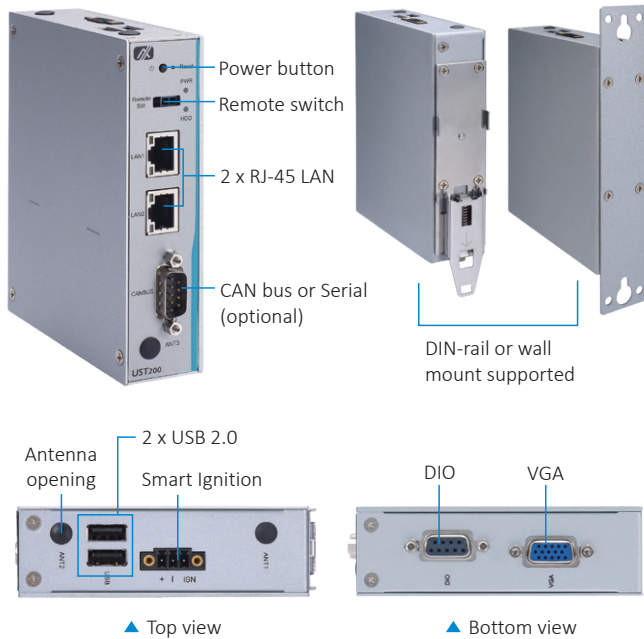


UST200-83H-FL

Robust and Compact DIN-rail Fanless Embedded System with Intel Atom® x5-E3930 Processor for In-Vehicle Gateway Applications



Features

- CE, FCC and E-mark certified
- Intel Atom® x5-E3930 processor
- Extreme cost-effective with fanless and cableless design
- Wide operating temperature range from -40°C to +70°C
- Supports typical 12V and 24V DC in-vehicle power input
- Smart Ignition for power on/off schedule, vehicle battery protection and different power mode
- Supports COM, CAN, USB, and GbE LAN



Specifications

Standard Color	Sliver	
Construction	Extruded aluminum and heavy-duty steel, IP20	
CPU	Intel Atom® x5-E3930 2C @1.3 GHz, TDP: 6.5W	
Chipset	SoC integrated	
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB	
BIOS	AMI	
TPM	TPM 2.0	
System I/O Outlet	Serial	1 x DB9 Serial console or RS-232/422/485*
	CANBus	1 x DB9 CANBus 2.0 A/B*
	Display	1 x VGA (up to 1920 x 1200 @60Hz) (HDMI optional)
	Ethernet	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® I210-AT)
	USB	2 x USB 2.0
	DIO	1 x DB9 8-bit programmable DIO
	Others	3 x Antenna opening 1 x Power button 1 x Remote switch
Extension Interface	1 x Full-size Rev. 1.2 PCI Express Mini Card slot:	
	• USB/PCIe with SIM socket	
Storage	1 x Half-size Rev. 1.2 PCI Express Mini Card slot:	
	• mSATA/USB/PCIe	
Storage	mSATA	1 x Half-sized mSATA (occupying 1 x PCI Express Mini Card slot)
Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	Vehicle: 1 x Terminal block, 12/24 VDC with smart ignition**
System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power	

Specifications

Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral***	
Humidity	0% to 95%, non-condensing	
Dimensions	31 mm (1.22") (W) x 100.4 mm (3.93") (D) x 125 mm (4.92") (H)	
Mounting	Wall mount, DIN-rail	
Weight (net/gross)	0.3 kg (0.67 lb)/0.45 kg (0.99 lb)	
Certifications	CE (Class A), FCC (Class A), E-Mark (E24) certified	
EMC	CE/FCC	EN 55032 (Class A), EN 55024, FCC part 15 B (Class A)
	E-Mark	ECE-R10
Vibration Endurance	3 Grms with mSATA (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	



* Please refer to the ordering information section.

** UST200 also supports 9 to 36VDC for general purpose. Please refer to the user manual for configuration settings.

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

Ordering Information

Standard

UST200-83H-FL-E3930-CAN-TVDC (P/N: E274200100)	Fanless embedded system with Intel Atom® x5-E3930 processor, 1 CAN, 2 LAN, 2 USB and 1 DIO, operating temperature from -40 to 70°C, TPM 2.0 supported, and Smart Ignition	
UST200-83H-FL-E3930-COM-TVDC *By request.	Fanless embedded system with Intel Atom® x5-E3930 processor, 1 COM, 2 LAN, 2 USB and 1 DIO, operating temperature from -40 to 70°C, TPM 2.0 supported, and Smart Ignition	

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

Optional

Communication Modules	TBD	LTE LE910C4-AP KIT (20) for tBOX (E)
	TBD	LTE LE910C4-EU KIT (20) for tBOX (E)
AC to DC Adapter Cable/Power Cord	E29R318103	ACC318-501-201 (LTE NL668-EAU)
	E29R318108	ACC318-541-30F (LTE NL668-EAU with GPS antennas)
	509000001500	PWS FSP120-AAAN3 (9NA1206647) FSP 120W
	599000001100	Power cord YP12/YC12_CY-U0032 YUNG_LI 1830mm
	59906000010E	Power cord YP-12/YC-12 (Japan)
	59903000000E	Power cord YP-22/YC-12 (Europe)
	59905000000E	Power cord YP-35/YC-12 (Australia)
	59904010000E	Power cord/UK YP-61A/YC-12 L=1830mm

* Specifications and certifications may vary based on different requirements.

Packing List

- 1 x Screw pack
- 1 x Wall-mount bracket
- 1 x Din-rail kit
- 1 x Power terminal block connector
- 1 x Thermal pad for memory module

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, IGN on delay and IGN off delay

Dimensions

