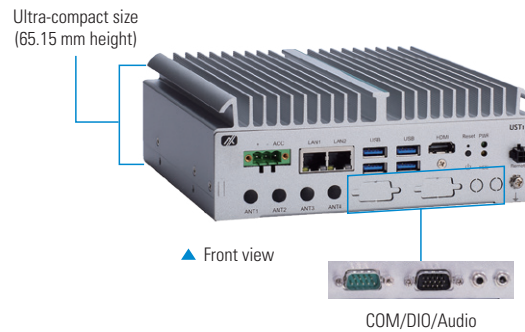


UST100-504-FL NEW

Fanless Embedded System with 7th/6th Gen Intel® Core™, Pentium® and Celeron® Processor, Compact Size for Video Analytics in Vehicle PC Market

Features

- CE, FCC certified; ISO 7637-2 compliant
- LGA1151 7th/6th gen Intel® Core™ & Pentium® processors (up to 35W) with Intel® H110
- Fanless and Wide operating temperatures from -40°C to +60°C
- 12/24 VDC power input, with power management (ACC ignition)
- Single-sided I/O design for easy maintenance
- Expansion capability for three PCI Express Mini Card slot and two internal SIM card slot




Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP30	
CPU	LGA1151 7th gen Intel® Kaby Lake processors, TDP: 35W LGA1151 6th gen Intel® Skylake processors, TDP: 35W	
Chipset	Intel® H110	
System Memory	1 x DDR4-1866/2133/2400 SO-DIMM, up to 16GB	
BIOS	AMI	
TPM	TPM 2.0	
System I/O Outlet	Serial	1 x DB9 Serial console or RS-232/422/485
	Display	1 x HDMI 1.4b supports up to 4K/2K @60Hz
	Audio	1 x Mic-in, 1 x Line-out
	Ethernet	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-IT)
	USB	4 x USB 3.0
	DIO	1 x DB9 4-in/4-out programmable DIO
	Others	1 x Reset button 1 x Power switch 1 x Remote switch 4 x Antenna opening
Expansion Interface	2 x Full-size Rev.1.2 PCI Express Mini Card slot: • 1 x USB/PCIe with SIM socket • 1 x mSATA/USB/PCIe with SIM socket 1 x Half-size Rev.1.2 PCI Express Mini Card slot: • 1 x mSATA/USB	
Storage	SATA drive	1 x Internal 2.5" SATA drive (9.5 mm height)
	mSATA	1 x Full-sized mSATA (occupied 1 x PCI Express Mini Card slot) 1 x half-sized mSATA (occupied 1 x PCI Express Mini Card slot)
Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	1 x Terminal block, 12/24 VDC with ACC ignition
	Power Consumption	12V, 5.06A; 24V, 2.72A
System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power	
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral*	
Humidity	0% to 95%, non-condensing	


Dimensions	185 mm (7.09") (W) x 150 mm (5.91") (D) x 65.15 mm (2.56") (H) (without wall mount)	
Mounting	Wall mount	
Weight (net/gross)	1.71 kg (3.77 lb)/2.19 kg (4.83 lb)	
Certifications	CE (Class A), FCC (Class A) certified; and ISO 7637-2 compliant	
EMC	CE/FCC	EN 55032 (Class A), EN 55024, FCC part 15 B (Class A)
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 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating) MIL-STD-810G, Method 514.6C-VL Category 4 compliant	
EOS Support	Windows® 10 64-bit, Windows® 7 64/32-bit (for 6th gen Intel® CPU), Ubuntu 18.04	
Software Support	AMS.AXView	

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

Ordering Information

System	
UST100-504-FL-i7-TDC (P/N: E274100101) UST100-504-FL-i5-TDC (P/N: E274100102)	Fanless embedded system with LGA1151 7th gen Intel® i7-7700T/i5-7500T desktop processor, H110, HDMI, 4 USB 3.0, 2 RJ-45 GbE LAN, RS-232/422/485, Mic-in/Line-out, DIO, SATA drive and ACC ignition 

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

Optional	
Anti-vibration Kit (P/N: 8816N1000A0E)	For in-vehicle/rolling stock applicable systems which improves HDD/SSD stability 
Communication Modules	8816K6603A0E AMPAK AP12356 Wi-Fi kit (E) 8816N5003A0E AP12356 WT Wi-Fi kit for tBOX/UST SFP (E)
AC to DC Adapter	50906D24000E Adaptor 24V/120W, wire only, FSP120-AAAN3

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

