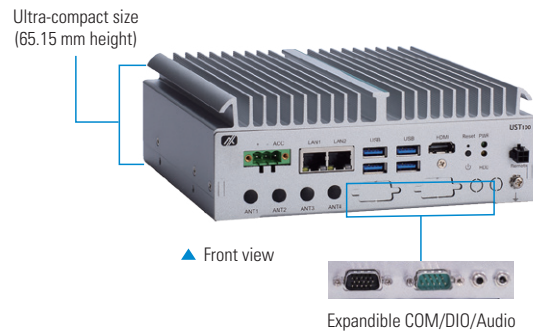# UST100-504-FL NEW

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

Ultra-compact size
(65.15 mm height)

▲ Front view

Expandible COM/DIO/Audio

Fanless	Ext. Temp	DDR4	Compliant ISO 7637-2	AMS.AXView

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 (optional)
	Display	1 x HDMI 1.4b supports up to 4K/2K @60Hz
	Audio	1 x Mic-in, 1 x Line-out (optional)
	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 (optional)
	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) certified
Vibration Endurance	3 Grms w/ SSD, 1 Grms w/ HDD (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-bit, Ubuntu 18.04
Software Support	AMS.AXView 2.0

*Wide operating temperature peripheral

    * All specifications and photos are subject to change without notice.   www.axiomtek.com

Ordering Information

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