

ARTS-4770

Fanless In-Vehicle Surveillance with Intel® Core™ i7-3517UE



Features

- **Fanless and rugged design**
- Build-in Intel® Core™ i7-3517UE 1.7G Hz Processor
- Wide Range DC Power Input (9~36V)
- Support Smart Ignition for vehicle
- Power on/off delay and low voltage protection
- 4-channel POE
- Mini PCIe expansion slots with 2*SIM holders for LTE and HSUPA
- Two Removable 2.5" SSD trays
- 12VDC output

System	
CPU	Soldered onboard Intel® Core™ i7-3517UE 1.7GHz
Memory	1 x 204-pin SO-DIMM sockets, supporting DDR3 1333/1600 MHz, up to 8GB SDRAM
Chipset	Intel® QM77
Graphics	Integrated Intel® HD Graphics 4000
SATA	1 x Serial ATA port with 300MB/s HDD transfer rate 2 x Serial ATA ports with 600MB/s HDD transfer rate
Connectivity	GPS module(ublox Neo-6) (optional)
	802.11 b/g/n Wireless LAN Mini-card (optional)
	HSUPA (3.75G) Mini-card (optional)
	LTE (4G) Mini-card (optional)
LAN Chipset	1 x Intel® 82579LM Gigabit Ethernet controller 5 x Intel® i210IT Gigabit Ethernet controller
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	1 x RS-232 and 1 x RS-232/422/485 with DB-9 male connector, isolation protection
USB Port	4 x USB 3.0 ports with type A connector (2 ports: front, 2 ports: rear)
LAN	2 x RJ-45 ports for Gigabit Ethernet, front side 4 x RJ-45 ports for Gigabit Ethernet and support IEEE802.3af POE (Max. 60W), rear side
Video Port	1 x DB-15 female connector for Analog RGB 1 x DVI-D female connector for Digital Video output
Digital I/O	1 x 10-bit digital I/O (4 in/4 out), isolation protection
Antenna	6 x SMA-Female connectors' holes for external antennas (for LTE, Wi-Fi/Bluetooth, HSUPA & GPS)
Audio	Mic-in/ Line-out
Expansion Bus	1 x Mini-PCIe slot for optional Wi-Fi/Bluetooth module
	1 x Mini-PCIe slot interconnected with SIM card socket for optional LTE module
	1 x Mini-PCIe slot interconnected with SIM card socket for optional HSUPA module
	2 x SIM sockets (outside accessible)
VDC Output	1 x 12VDC output

Environmental

Operating Temp.	-20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow
Storage Temp.	-40 ~ 80°C (-40 ~ 185°F)
Relative Humidity	10 ~ 90% @ 55°C (non-condensing)
Vibration	3Grms/5~500Hz/random operation, with SSD
Shock	Operating 40G (11ms), Non-operating 60G with SSD

Qualification

Certification	CE, FCC Class B, E13 Mark
---------------	---------------------------

Power Requirement

Power Input	DC 9~36V input, w/ 3-pin terminal block
Power Consumption	Max. 90W
Power Management	Power on/off delay

Storage

Type	2 x 2.5" removable drive bays for SATA SSD
	1 x mSATA

Mechanical

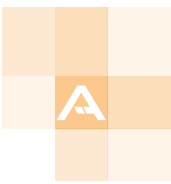
Construction	Aluminum alloy
Mounting	Support wall-mount
Weight	4.65 Kg (10.25 lb)
Dimensions (W x D x H)	260 x 180 x 80 mm (10.6" x 7.08 x 3.14")

OS Support

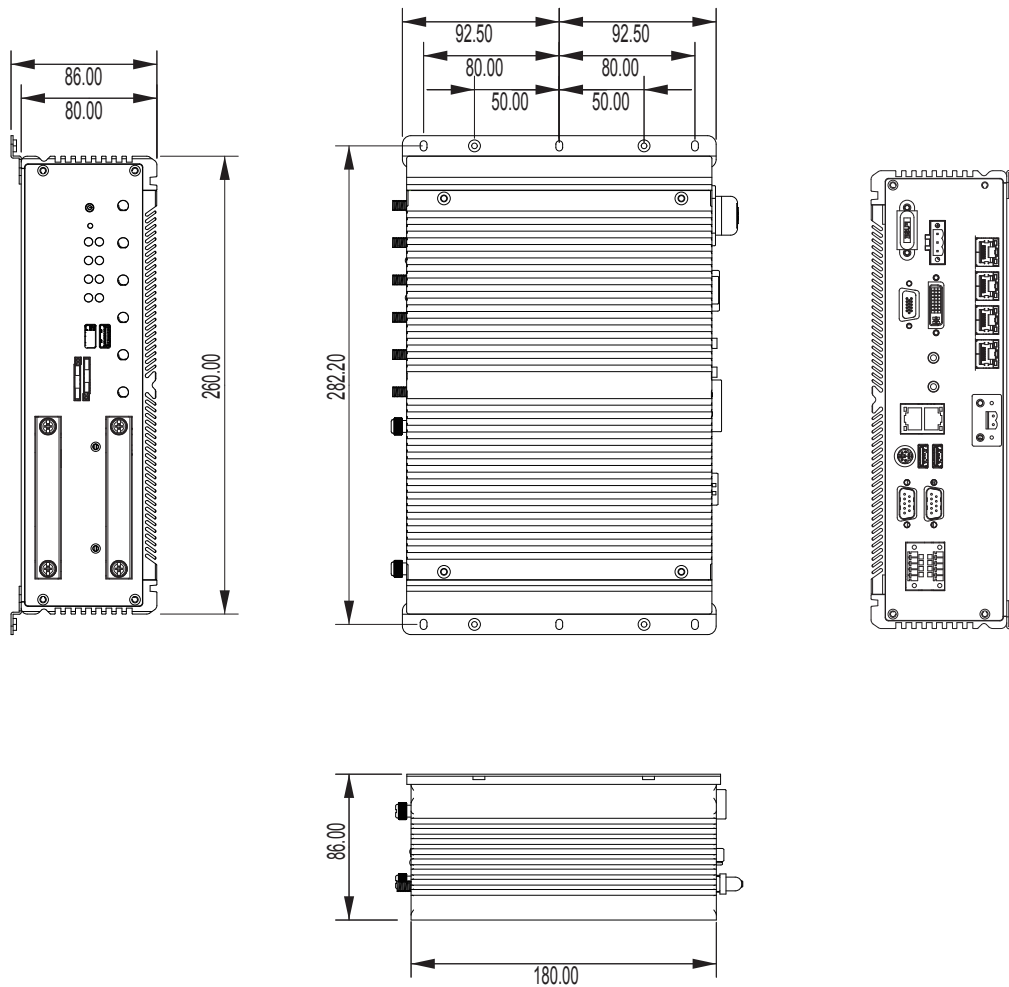
WS7E / W7 Pro / Linux (Kernal 2.6.x)

Ordering Information

ARTS-4770	Vehicle Barebone System w/ Intel® Core™ i7-3517UE, w/o memory and storage
ARTS-4700-16S4G	Vehicle BOX System w/ Intel® Core™ i7-3517UE, w/ 16GB mSATA and 4GB memory



Dimensions



Optional Accessories

PAC-B120W-FSP	19V/6.32A 120W AC/DC adapter kit
---------------	----------------------------------



Optional Configuration (CTOS* Kit)

SSD-25032	Memoright 2.5" 32GB SATAII SSD kit
-----------	------------------------------------

SSD-25016	Memoright 2.5" 16GB SATAII SSD kit
-----------	------------------------------------



GPS-UART Kit	U-BLOX GPS Kit
--------------	----------------



WIFI-AT2350	Atheros AR9462 WiFi module w/ 20cm & 30cm internal wiring
-------------	---



HSPA-SI1400	HSUPA 3.75G module kit & internal wiring
-------------	--



ANT-D11	1 x Wi-Fi Dual-band 2.4G/5G antenna
---------	-------------------------------------



MM-3I-4G	Industrial-grade DDR3-1333 4GB SDRAM
----------	--------------------------------------

MK-3I-8G	Industrial-grade DDR3-1600 8GB SDRAM
----------	--------------------------------------



*CTOS means Configure-to-Order Service.