

BPC Train-F4770

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



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
- Removable two 2.5" SSD trays
- 12V_{DC} output

System

CPU	Soldered onboard Intel® Core™ i7-3517UE 1.7GHz Processor
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
LAN	2 x RJ-45 ports for Gigabit Ethernet
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, WiFi/Bluetooth, HSUPA & GPS)
Audio	Mic-in/ Line-out
Expansion Bus	1 x Mini-PCIe slot for optional WiFi/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 12V _{DC} 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, e1 Mark
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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
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Mechanical

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

OS Support

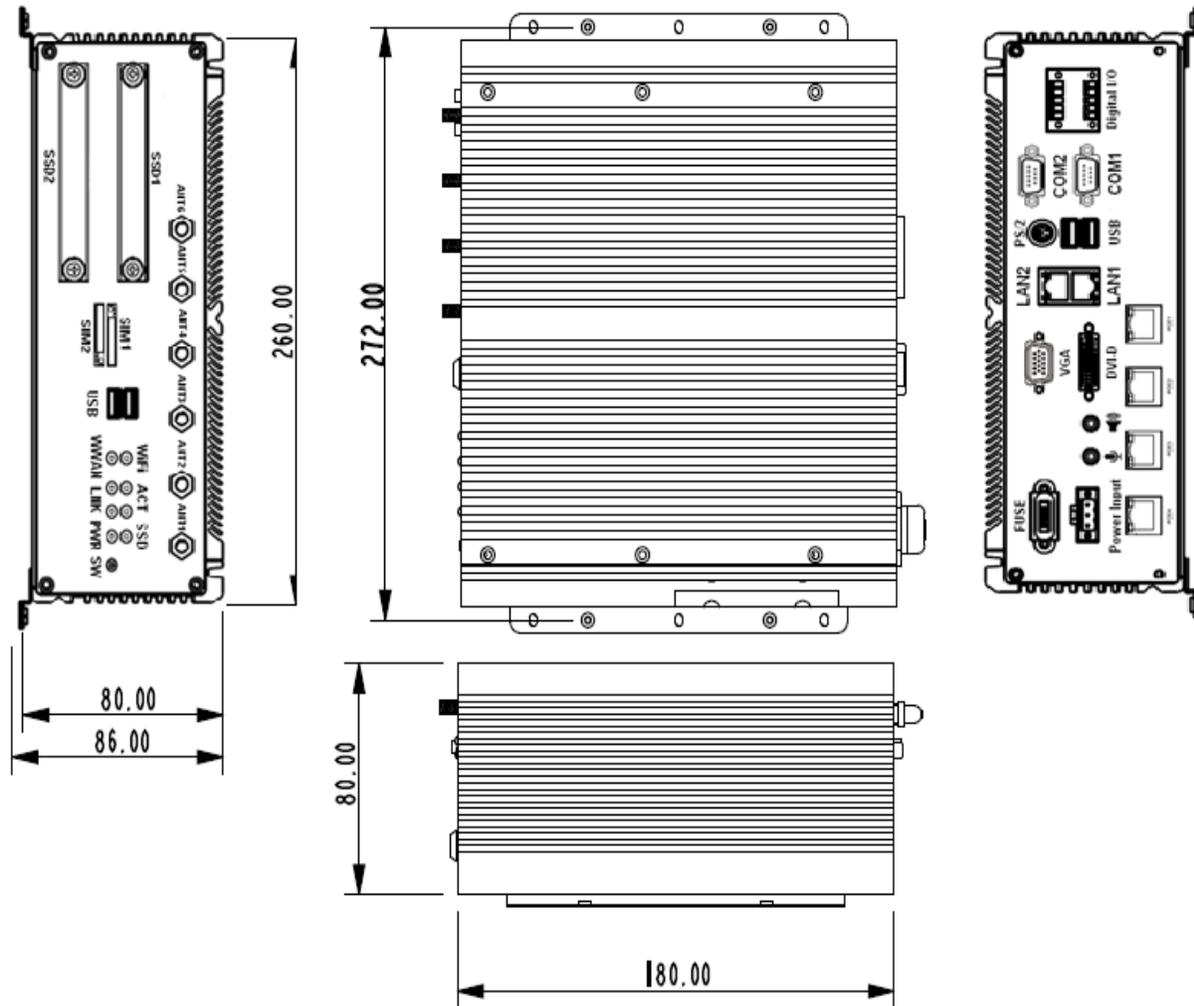
Windows Embedded Standard 7 / 8 / 10 / Ubuntu

Ordering Information

Train-F4770 Vehicle Barebone System w/ Intel® Core™ i7-3517UE, w/o memory and storage



Dimensions



Optional Accessory

PAC-P120W-FSP 19V/5.96A 120W AC/DC adapter kit



Optional Configuration (CTOS* Kit)

SSD-25032 Memoright 2.5" 32GB SATAII SSD kit

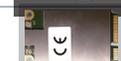
SSD-25016 Memoright 2.5" 16GB SATAII SSD kit



WIFI-IN1350 Intel® Centrino® Advanced-N 6205 WiFi module w/ 20cm & 30cm internal wires



HSPA-SI1400 HSUPA 3.75G module kit & internal wire



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

ANT-H11 1 x 2dBi HSUPA antenna



2GB SO-DIMM Industrial DDR3-1333 2GB SDRAM

4GB SO-DIMM Industrial DDR3-1333 4GB SDRAM



*CTOS means *Configure-to-Order Service*.