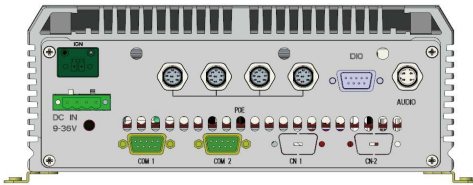




FPC-9000-V1

In-Vehicle Box PC with Intel® Xeon® E3/6th&7th Generation Core™ i7/i5/i3 Processors



Features

- Fanless Design
- Wide Range DC Power Input (9~36V)
- Wide temperature range from -40°C to +70°C (EN 50155 class T2)
- 2*RS-232/422/485 and 8-bit isolated DIO
- 4 x 802.3af Gigabit PoE ports by M12 connectors
- RTC Battery service windows Support
- 3 x mPCIe slots for Optional WiFi/BT/3G/4G/GPS/GPS Modules
- 1 x M.2 (NGFF) B-Key(2242) socket for optional LTE Module
- 3 x SIM card sockets
- 2 x reserved DB9 connectors(CN1/2) for optional Serial Ports or CAN BUS

System	
CPU	Intel® Xeon® E3/6th & 7th generation Core™ i7/i5/i3 processor in LGA1151 socket
Memory	2 x 260-pin DDR4 SO-DIMM sockets, supporting 2400 MHz SDRAM up to 32GB
Chipset	Intel® C236
Graphics	Integrated Intel® HD Graphics
ATA	3 x Serial ATA port with 600MB/s HDD transfer rate 1 x Intel® i219LM PCIe controller w/ iAMT 11.0 (except i3)
LAN Chipset	2 x Intel® WGI211AT GbE controllers 4 x Intel® WGI211IT GbE controllers for POE
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	2 x DB-9 male connectors (2 x RS-232/422/485), rear side
USB Port	6 x USB 3.0 ports, front side
LAN	3 x RJ-45 ports for GbE, front side 4 x M12-female 8P connector, IP67 for GbE, A-coded, rear side
Video Port	1 x DB-15 female connector for Analog RGB, Max. resolution : 1920 x 1080 @ 60Hz 1 x DVI-D female connector for digital video output, Max. resolution : 1920 x 1080 @ 60Hz
Antenna	6 x SMA-female connectors' holes for external antennas
Audio	Mic-in/Line-out
DIO	8-bit digital I/O, 4-in/4-out w/ 1*DB-9 male connector, 2KV isolated protection, rear side
Expansion Bus	2 x mini-PCI Express Slots interconnected with SIM card sockets for optional WiFi/BT/3G/LTE/GPS (PCIex1+USB2.0, Full Size) 1 x mini-PCI Express slot for optional WiFi/BT/GPS (PCIex1+USB2.0, Half Size) 1 x M.2 (NGFF) B-Key(2242) socket interconnected with SIM card socket for optional LTE module
Environmental	

Operating Temp.	-40 ~ 70°C (-40 ~ 158°F), ambient w/ air flow, (w/ 35W TDP CPU)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Vibration	3 Grms/5~500Hz/random operation w/ SSD
Shock	Operating 40G (11ms), Non-operating 60G with SSD

Qualification

Certification	CE/FCC Class A, E13 Mark, EN50155-T2 and EN 45545-2 certified
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Power Requirement

Power Input	DC 9~36V input (w/ 4-pin DV input terminal block, combining remote power on/off switch
Ignition Switch	2-pin terminal block : IGN, GND
Power Consumption	Max. 120W (w/o I/O card)

Storage

	1 x CFast socket, can be outside accessible
Type	1 x external 2.5" SATA3 6Gb/s Drive Bay 1 x internal 2.5" SATA3 6Gb/s Drive Bay

Mechanical

Construction	Aluminum alloy
Mounting	Support Wall-mount
Weight	6.4kg(14.1lb)
Dimensions (W x H x D)	225(W) x 267 (D) x 90 (H) mm

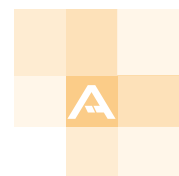
OS Support

Windows 10 IOT (For 6th/7th Gen Intel CPU)
Windows 7 / Windows 8.1 (For 6th Gen Intel CPU)
Linux (Kernal 4.x)

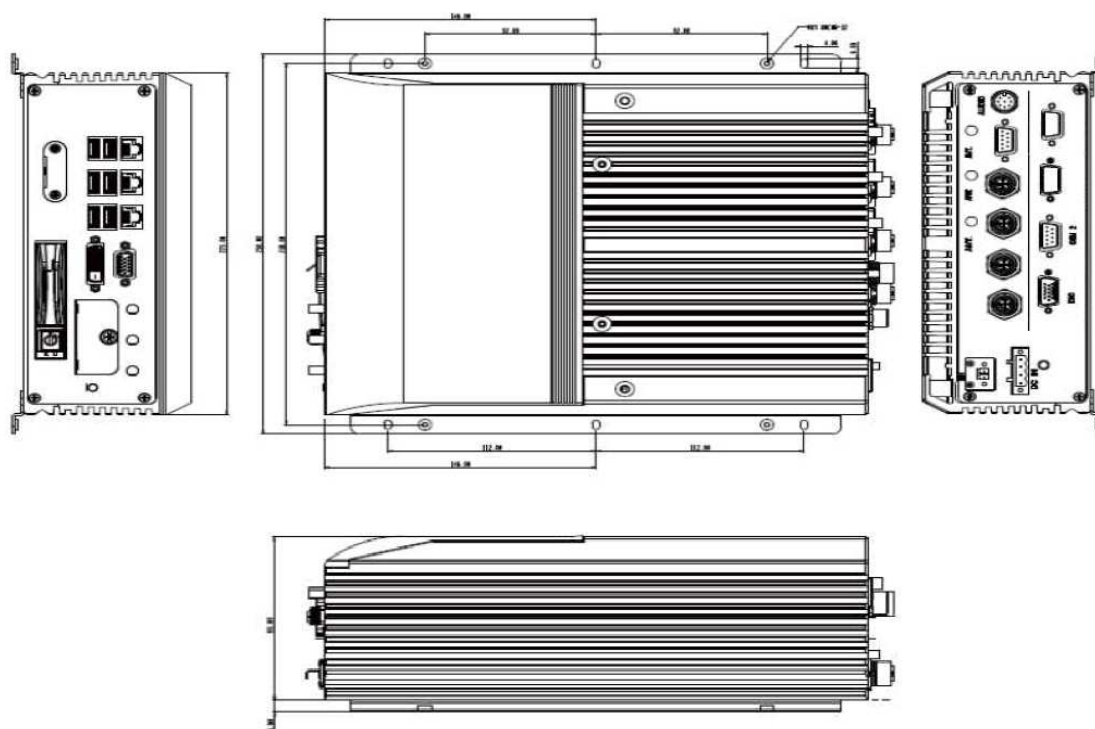
Ordering Information

FPC-9000-V1	Barebone Fanless In-Vehicle/Train BOX PC for Xeon®E3/6th & 7th Gen. Core™ i7/i5/i3 35W CPU, w/o expansion(CPU-RAM-SSD-OS by CTOS*)
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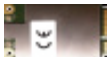

All specifications are subject to change without notice.



Dimensions



Optional Configuration (CTOS* Kit)

WMK-7000	Wall-mount kit for FPC-7XXX Series	
IPS-RSD-150D-24	24V/6.32A 150W DC-DC Power Converter	
MK-4I-4G	Industrial-grade DDR4-2400 4GB SDRAM	
MK-4I-8G	Industrial-grade DDR4-2400 8GB SDRAM	
80/120/150GB SSD	Intel® 2.5" 80/120/150GB SATAIII SSD Kit	
HSUPA-1450	HSUPA 3.75G module kit w/ 25cm internal wiring	
LTE-EM06	M.2 IOT/M2M-optimized LTE CAT 6 Module Kit w/ 25cm internal wiring	
WiFi-AT4550	Atheros, QCNFA324 WiFi module w/ 2*30cm internal wiring Kit	
GPS-mPCIe Kit	LOCOSYS GPS Kit w/ IPEX-SMA cable and antenna Kit	
ANT-D11	1 x Wi-Fi Dual-band 2.4G/5G antenna Kit	
ANT-H11	1 x 2dBi HSUPA Antenna Kit	
ANT-G11	1 x 3000mm 27dB SMA Remote GPS Antenna	