

VoomPC-2™ Automotive PC Enclosure

Mini-ITX Car PC Enclosure

Installation Guide

Version 1.0
P/N VOOM-PC-2-ENC



Before you start...

<http://www.cartft.com>, Cool Embedded PCs

Please take a moment and read this manual before you install the VoomPC-2™ in your vehicle. Often times, rushing into unit installation can result in serious damage to your motherboard, power supply and probably your car's electrical system.

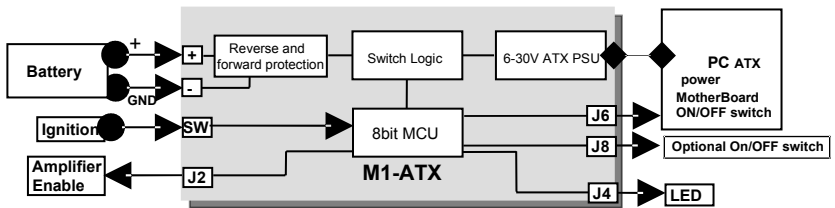
The VoomPC-2 has a wire harness that needs to be connected to the car's electrical system. During installation, **always double check the polarity** using a voltmeter.

1.0 Introduction

Thank you for purchasing the VoomPC-2 mini-ITX vehicle enclosure!

The VoomPC-2 was designed to work with a wide variety of main boards such as the VIA mini-ITX boards as well as low power Pentium-M OR Core 2 Duo. Please note that powering full power P4 or AMD systems is not recommended due to excessive heat dissipation.

2.0 Required tools



In order to install the VoomPC-2 in your vehicle you will need the following:

- Phillips screwdriver and Wire cutter / stripper
- Few feet of wire (AWG 12-16), preferably color coded, used for power input.

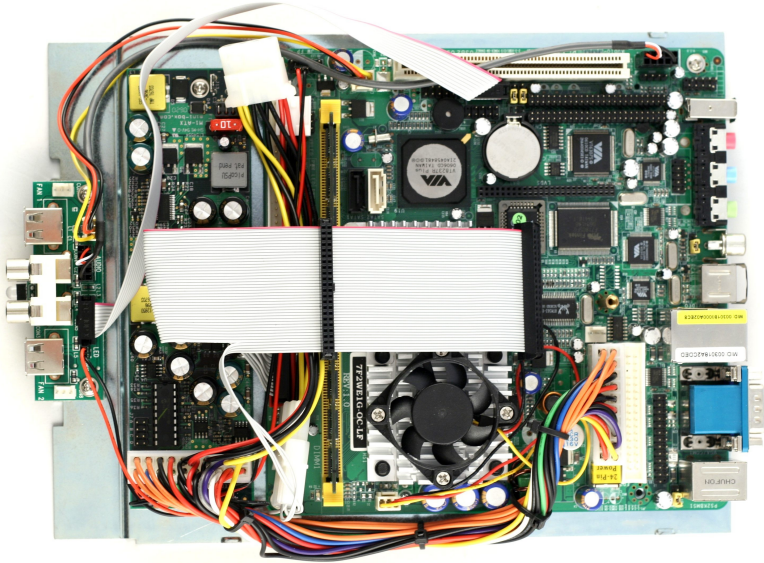


Figure 1.0, bottom mounting plate

3.0 VoomPC-2 installation steps

- 1) Install the motherboard, Front Audio / USB board and Power Supply on the base plate using M3 screws. (See figure 1.0)
- 2) Connect the ATX cable harness provided with your power supply to the motherboard. NOTE: Use small tie-wraps on the ATX cable harness in order to improve air flow.
- 3) Connect the Front Audio header (marked "AUDIO") to the motherboard's Front Audio header using the 2x5 shielded cable. NOTE: You need to remove the 2 jumpers from the Motherboard's Front Audio header.
- 4) Connect the Front USB header (marked "USB") to the motherboard's internal USB header.
- 5) Connect the LED header to the Motherboard's LED header. If using M1-ATX or M2-ATX power supplies you might want to connect this LED to the power supply LED header. (The M1/M2-ATX provides additional visual information (blinks) reporting various states of the system)
- 6) Connect the Fan-In header to the motherboard's fan header. Connect the Fan1 and Fan2 headers to the front fans.

- 7) Install the HDD and CDROM (optional) into the metal bracket and connect to the motherboard using the IDE cable.
- 8) Install the motherboard I/O shield at the back of the VoomPC-2 enclosures

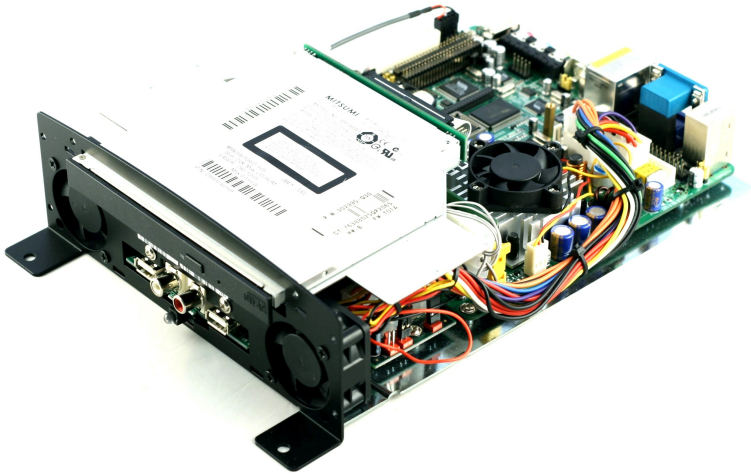


Figure 1.1, bottom mounting plate

- 9) Your final assembly should look similar to Figure 1.1. Slide the bottom plate into the extrusion and stop half way into the slide. Connect the power input faston wires to the Power Supply unit. (In case you are using a Power Amplifier, connect the AMP RMT wires to the Power Supply Anti-Thump header.
- 10) Hook up Monitor, Keyboard, etc and test your system by turning ignition ON.
- 11) Secure the VoomPC-2 using the 4 front/back mounting screws. If you don't want to drill holes into your car chassis, stick large Velcro pads to the bottom plate of the VoomPC-2 (the hook side) and attach to your car's carpet and a strong adhesion will be formed.

4.0 Power Connector Wiring Diagram

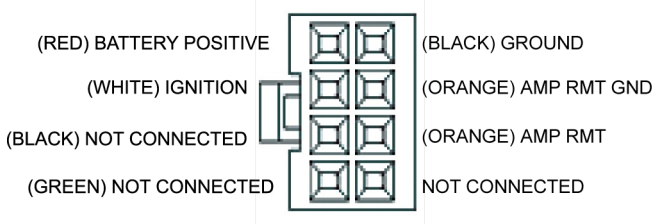


Figure 1.3, power connector diagram

Connector type is Molex “mini-fit JR” series, 2 x 4 configuration. Consult www.molex.com for additional information on housings and mating pins (male/female). All “mini-fit JR” parts can be purchased on-line from www.digi-key.com.

NOTE: The Black and Green wire harness labeled “not connected” is intended to special projects use. For example, should you need additional 5V or 12V output, you could take advantage of this pre-installed wires.

5.0 Mechanical

- Dimensions: 210(W)x265(L)x66(H)mm
- Weight, including packaging: 3.0Kg

6.0 Support and warranty

Standard Hardware Warranty 1Year / US, 2 Year EU
Installation support: 30days via email, support@cartft.com.

Additional accessories can be purchased on-line from www.cartft.com.

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