

APPLICATIONS

The **ENVADER®-MI-BOX** is the perfect Plug&Play Box PC solution for vehicles applications. It is a german engineered and produced high quality Box PC system and optimal adapted for:

- _ Mobile Box PC for Commercial / Industrial Vehicles
 - automotive power input,
 - small form factor
- _ Measurement
 - USB client port, multiple graphics
- _ Automatic Control
 - scalable, long term availability,
 - flexible expansion
- _ Rugged Industrial Systems
 - designed for low-power,
 - noiseless and extreme temperature environments

MINI-ITX BOX PC SYSTEM



Easy expansion with CAN, Analog/Digital IO, Relay, RS232 and RS485.



High speed communication with USB 3.0 and Gigabit Ethernet.



The Box PC starts automatically by ignition on and shut down with a time delay by ignition off.



Mobile Box PC system in a strong aluminum housing.



Passive cooling and aluminum housing.



Optimized mobile Box PC for automotive DC input.

SPECIFICATIONS

CPU	Intel® 6/7th Gen. Core™ processors i7-7600U / 2.8 GHz / 4 MB cache i5-7300U / 2.6 GHz / 3 MB cache i3-7100U / 2.4 GHz / 3 MB cache Celeron® 3965U / 2.2 GHz / 2 MB cache Others on request
Max. memory	Up to 32 GB DDR4 dual-channel memory support up to 2133 MT/s
Front Interfaces	4 USB 3.0, 1 MicroSD-Card socket Up to 2 Gigabit Ethernet 2 Display port conn. (4096 x 2304) 1 Line In, 1 Line Out / MIC In 1 Mini-PCIe with SIM Card socket 2 Signal LEDs (HDD + PWR)
Extension interfaces	3 USB connectors to connected USB interface modules KL15 clamp - switched plus from the ignition switch 1 M.2 socket
OS support	Linux Ubuntu 16.04 LTS Microsoft® Windows® 7 Microsoft® Windows® 10 Microsoft® Windows® 10 IoT
Power supply	Min. 8 V / Max. 32 V DC, automotive grade, typical 30 W
Housing	Aluminum case
Dimension	240 mm x 70,4 mm x 250 mm
Weight	Approximately 1750 grams + opt.
Mounting	Stand alone
Conformity	CE, ROHS, REACH
Max. operating temp.	0°C to +60°C ambient
Max. storage temp.	-20°C to +85°C ambient
Max. rel. humidity	95 % @ 40°C, non-condensing

DESIGNED FOR SEVERAL POSSIBILITIES

Alternate
Box-PC
chassis



EXPAND YOUR VEHICLE WITH A BOX PC

USB Interface Modules Options

Module	Description
MTCOA	CAN module
MTCAB	CAN module (galvanically isolated)
MTDAA	Analog/Digital module
MTETA	Ethernet module
MTGPA	GPIO module
MTMCA	Mini PCI Express module
MTREA	Relais module
MTRSA	RS-232 module
MTRSB	RS-485 module (half duplex)
MTRSC	RS-485 module (full duplex)

Combine up to three modules to suit your needs. Any combination is possible.

fanless rugged industrial design

OVERVIEW

The ENVADER®-MI-BOX is the ideal industrial grade Box PC for versatile applications in all kind of vehicles and by many further useages.

Up to three interfaces options in different possible combinations allow a universal expansion of the system.

SUMMARY

- ▶ Aluminum case
- ▶ Passive cooled
- ▶ Uninterruptible power supply
- ▶ Wireless options
- ▶ Easy mounting