BOXPC-MIITX

APPLICATIONS

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

MINI-ITX

Alternate Housing Option

_ Mobile BoxPC 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 demanding temperature environments

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

High speed communication with USB 3.0 and Gigabit Ethernet.

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

Mobile BoxPC system in a strong aluminum housing.

Fanless passive cooling and aluminum housing.

Optimized mobile BoxPC for automotive DC input.

HIGH QUALITY
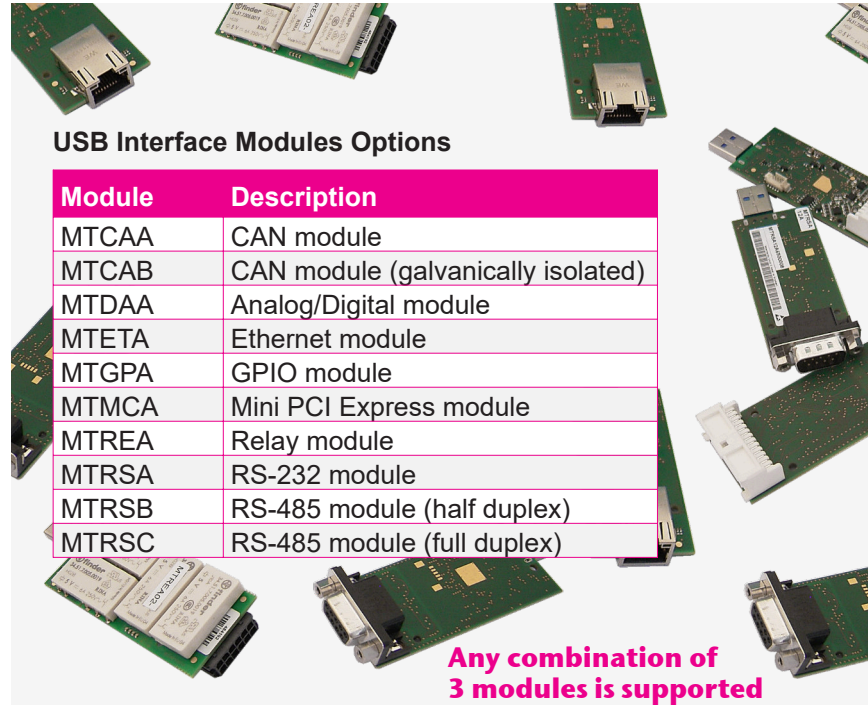
MADE IN GERMANY

15 years long life support [1]

12/24 V

E.E.P.D.

...just embedded!

SPECIFICATIONS

CPU	Intel® 7th Generation Core™ processors[1]
Max. memory	Up to 32 GB DDR4 dual-channel memory support up to 2133 MT/s
Gigabit Ethernet	2 Intel® integrated GbE/I211
LTE/4G (OPTIONAL)	300 Mbps max./EMEA, APAC/Diversity/GNSS
WiFi/BT (OPTIONAL)	802.11 AC with diversity/Bluetooth Version 5
SSD (OPTIONAL)	M.2 SATA / 64 - 512 GB
SD-Card	1 MicroSD-Card socket
USB ports	4 USB 3.1 Gen1
Display Port connectors	2 connectors; up to 4096 x 2304 @ 60 Hz
Sound	3.5 mm MIC In / headphone Out / line In
Health management	Hardware monitoring and Watchdog
Other	Power and status LEDs
Power supply	Min. 8 V / Max. 32 V (DC) automotive grade	KL15
Fanless	Designed for fanless operation
Max. operating temp.	0°C to +60°C ambient commercial grade
Max. storage temp.	-20°C to +85°C
Max. rel. humidity	95 % @ 40°C, non-condensing
Housing	Aluminum case
Mounting	Stand alone or hat rail
Dimensions approx.	240 x 71 x 250 mm
Weight approx.	1750 grams + options
Conformity	CE, ROHS, REACH
OS support	Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Linux (Ubuntu 18.04 LTS, Yocto Project 2.2)

[1] 15 years availability according to CPU manufacturers specification

EASY CUSTOMIZABLE
BY A LARGE NUMBER OF OPTIONS

USB Interface Modules Options

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

Any combination of 3 modules is supported

Ordering Code System	Description	Type
BPCMIA	Mini ITX System	Celeron 3965U / 2C / 2T / 2.2 GHz / 10 - 15 W
BPCMIC	Mini ITX System	i3-7100U / 2C / 4T / 2.4 GHz / 7.5 - 15 W
BPCMIE	Mini ITX System	i5-7300U / 2C / 4T / 3.5 GHz / 7.5 - 25 W
BPCMIG	Mini ITX System	i7-7600U / 2C / 4T / 3.9 GHz / 7.5 - 25 W
4GB-MIITX	Main Memory	4GB
8GB-MIITX	Main Memory	8GB
16GB-MIITX	Main Memory	16 GB

OPTION	Description
SSA	SATA SSD 64 - 512 GB
LTE	LTE/4G Modem not in combination with WBT
WBT	WiFi/BT card not in combination with LTE
W10	Microsoft® Windows® 10
WIE	Microsoft® Windows® 10 IoT Enterprise
LNX	Linux Ubuntu 18.04 LTS

OVERVIEW

The EM Box® PC-MIITX is the ideal industrial grade BoxPC 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

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