








B2host

multifunctional onboard computer



-  control of peripheral devices
-  data collector for passenger counting data and videos
-  variety of connection and transfer options
-  compact design
-  expandable with touch-panel B2touch

DESCRIPTION

The B2host is an onboard computer for buses and trains. It can control both the entire vehicle periphery as well as vehicle tracking, communication and all ITCS requirements.

It was designed specially for the harsh operating conditions in buses and trains. With its interfaces, the B2host can be easily integrated into any vehicle topology.

The B2host also takes the task of collecting passenger counting data and the transmission to the central office. Through its multiple interfaces, it is also able to capture multiple data streams such as diagnostic data, IBIS data, GPS position etc.



The B2host can be expanded with the touch-panel B2touch. The B2touch offers the driver a comfortable graphical user interface.

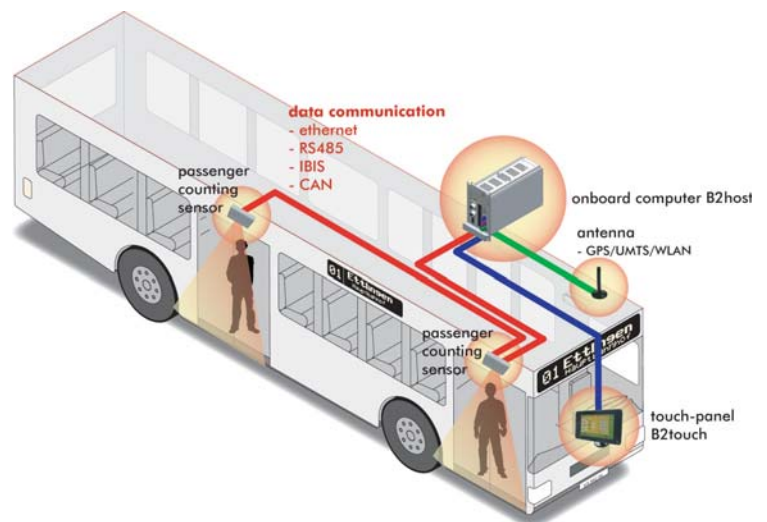
APPLICATION: PASSENGER COUNTING

The B2host is mounted in a vehicle and collects the desired data. Those data may be combined with GPS data and all kind of status information.

The time or position of transmission may be configured with trigger functions.

If a trigger event occurs the B2host will transmit its data via GSM, GPRS, WLAN, Ethernet or copies them to a USB stick.

As a special service to our customers, we provide a server, which manages the collection of all transmitted data. You will get your data afterwards via email or may transfer them via a secure server access over the internet.

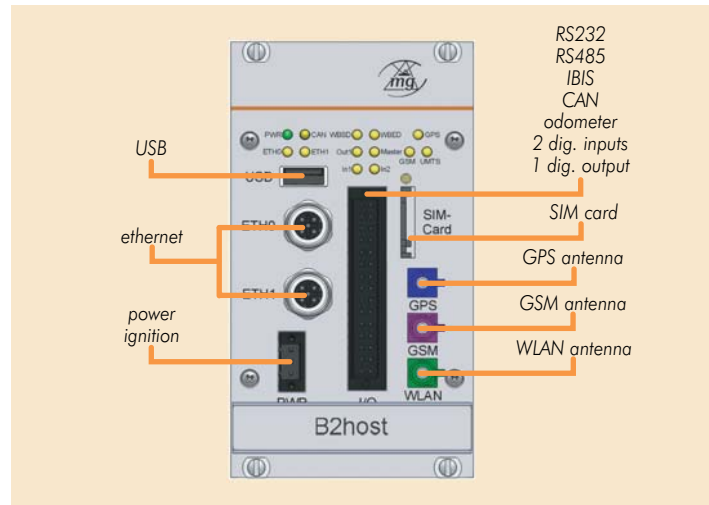


B2host

data management in the vehicle



INTERFACES



TECHNICAL INFORMATION

CPU: ARM Cortex-A9

Interfaces serial: 1 x IBIS-WB VDV300 master/slave switchable
2 x ethernet 10/100 Mbit/s M12 (MDX)
1 x RS485 (galvanically separated)
1 x RS232
1 x USB-A
1 x CAN (galvanically separated)

Inputs: 1 x odometer input with internally switchable characteristics
- standard encoder (Open Collector)
- optocoupler input
- inductive pulser
2 x digital input (potential free)
- integrated current sink cable breakage detector $I=3.5\text{mA}$
- nominal input voltage 24V
- maximum input voltage 30 V

Outputs: 1 x relay output
nominal switching capacity with resistive load:
DC: 1A 30 V
AC: 0.5A 125V

Antenna connection: 1 x GPS FAKRA Code C blue
1 x UMTS FAKRA Code D bordeaux
1 x WLAN FAKRA Code I beige

Nominal capacity: 8 W (standby power without peripherals)

Nominal voltage: 24 V DC -25 % / +30 %

Environmental conditions:
operating temperature: -20 °C ... +70 °C
storage temperature: -40 °C ... +85 °C
relative humidity: up to 95 %

Housing: 14 TE cassette

Dimensions: W60 x H130 x D170 mm

Weight: 0,75 kg

Operating system: Linux



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