

BB3 On-Board-Computer



Key Features

- Low Power Intel CPU
- Integrated data transfer via GSM, UMTS, LTE with voice control
- IBIS-vehicle bus (VDV300)
- GPS navigation with dead-reckoning
- Expanded operating temperature range

The FELA On-Board Computer BB3 has been designed especially for the requirements in vehicles which run in roughest conditions and applications. Versatile use is a key feature of the BB3 On-Board Computer: due to its small dimensions combined with compact housing it is possible to install it as a stand-alone unit or inserted in a 19" slot.

The BB3 On-Board Computer includes a powerful Intel Baytral Quadcore processor (low power consumption), supporting Linux as well as Microsoft Windows.

One of the key features is intelligent automatic start via intelligent power management, one of many embedded functions which can be used e.g. for installation of software updates. The BB3 On-Board Computer is equipped with numerous electrical interfaces, standard GPS receiver, audio output, display output, IBIS-vehicle bus, fast ethernet, WLAN reception and access point, thus enabling unlimited fields of use for those who expect „State-of-the-art“ technologies for highest demands.

FELA Management AG in Diessenhofen, Switzerland, is part of the FELA Group founded in 1967. As a manufacturer of electronic components and traffic telematics systems, FELA Management AG supplies technologies and services that focus on areas such as geolocation and traffic management.

FELA Management AG is also the manufacturer of the Swiss LSVA toll collection system. Other customers at FELA Management AG include the Swiss Postal Service, Stadler-Rail, the Cantonal Police of Zurich and Geneva, Swiss Federal Railways (SBB) and the Arcobaleno Ticino Fare Network. FELA's CarLoc telematics system offers high-quality, comprehensive solutions for the transport and logistics industries. FELA's system solutions for rail and local public transport are marketed under the EasyDrive brand: The portfolio includes guidance systems, ticketing systems, internal and external passenger information systems, video surveillance, emergency communication systems and dynamic passenger information systems at stops and stations.

Industry-specific, optimized, intermodal traffic and transport applications for freight forwarders, construction companies and courier services enable a reduction in costs and improvement of productivity.

Technical Data

- Display port (max. resolution 1920x1200 @ 60 Hz, including audio)
- 2x USB (one 1x USB 3.0, 1x combination with sSATAp)
- 1x Ethernet (RJ45) (1x 10/100/1000BaseT Ethernet)
- 2x GSM (UMTS/GPRS/HSPA/LTE (voice transmission, data transfer)
- Loudspeaker output
- 2x WLAN antenna (can be used as access point)
- IBIS-WB (VDV300)
- Digital inputs for assault, Push to Talk, Stop, odometer, door criteria, TEIN (ignition), reverse gear
- 2x digital outputs
- GPS with Dead Reckoning
- SIM card slot

Nominal voltage	24V (specified tolerance range 10-36V)
Power consumption	max. 30W
Internal fuse	2.5A, quick, overvoltage and overcurrent protection
Temperature range	-20°C to +65°C ambience
Storage temperature	-40°C to +80°C
Humidity	≤95% relative humidity, not condensing
Communication interface	Ethernet 10/100/1000 Base-TX(FD), according to IEEE 802.3 and IEEE 802.3u, Auto-MDIX, auto-negotiation
CPU	x86 architecture - Intel E3800 (Bay Trail) series - single, dual- or quad core possible - up to 4GB RAM (Qseven)
Protection class	IP20
Weight	appr. 1 kg
Construction	housing: aluminum
Dimensions	height: 115mm, width: 105mm; depth: 124 mm

