

GERSYS BC3700

Product Information
GERSYS GmbH
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GERSYS[®]
MMI technology for control equipment

Multifunctional Display BC3700

The new high-performance compact unit



- High-performance processor: 1GHz, ULV VIA Eden
- MPEG hardware decoding (Digital Video over LAN)
- Usage as diagnosis, controls and information display on motor vehicles of all kinds
- Operating system WIN XPe / Pro e, MS-DOS, LINUX or QNX
- Low Depth for installation: Only 93 mm incl. connectors
- Customized keyboard layout and labelling (optionally)

The multifunctional display BC3700 has been developed for the usage on railroad vehicles, but due to its flexibility and robustness it can be used for many other mobile applications. The unit is based on an industrial PC architecture for standard operating systems added with numerous railway specific features. For digital video applications (video input via Ethernet) the powerful 1GHz VIA Eden ULV processor supplies MPEG hardware decoding. Due to the standard UTX module which enables future processor upgrades, a high degree of investment certainty can be achieved with the BC3700.

Technical Data BC3700

Processor and Memory

- VIA Eden ULV, 1 GHz
- DDR2-SDRAM 256 MB (on board), optionally up to 1 GB
- Video controller MPEG-2 decoding, optionally MPEG-4
- Compact Flash Card \geq 256 MB
- Slot for 2nd Compact Flash Card
- RTC (optionally with battery)

Display

- 10.4" TFT display
- Resolution VGA 640x480 pixels
- Illumination 450cd/m² (typ., without glass plate)
- Automatic and/or manual illumination control
- 2 status LED's for low/over temperature und key confirmation

Keyboard

- 25 single keys with overlying minted foil
- High abrasion and chemicals resistance
- Keys with LED illuminating
- Automatic key illumination control

Interfaces

- Serial interfaces:
 - 1 x RS422/RS485 (isolated)
 - 2 x RS232
- Ethernet 10/100 MBit (on Board)
- USB 2.0 (on Board)
- PC/104plus slot for ISA and PCI bus cards (e.g. for MVB)
- Port for external PS/2 keyboard/mouse

Power Supply

- Wide input voltage range from 24 - 110V DC (+/-40%)
- Power consumption max. 50 W – in heating operation

Mechanics

- Built-in unit in steel sheet housing (RoHS compliant)
- Shock and vibration immunity
- WxHxD: 310 x 214 x 93mm
- Low depth for built-in incl. connectors due to an optimized placing of connection field
- Weight approx. 5.5kg

Environmental requirements

- Operating Temperature range from -25°C up to +55°C (heating below +5°C)
- Separate electronics for temperature management
- Complies with railway standards EN50155 and EN50121

Software

- Hardware specific drivers
- Operating system WIN XP embedded, XP Pro e, MS-DOS, LINUX and QNX

Options / Versions

- Touch Screen, Keyboard (32 keys) acc. to UIC
- Transflective display, SVGA, XGA
- Customized keyboard layout/lettering, logo on front
- Audio, Speaker, Line Out
- CAN (on-board), LPT (on-board)