

## Multifunctional display BC3700.

### Vehicle displays

#### The powerful compact unit

- High-performance processor: 1 GHz, VIA ULV
- MPEG hardware decoding (suitable for Video-over-LAN)
- Usage as diagnosis, controls and information display on motor vehicles of all kinds
- Operating system WIN XPe – optionally LINUX or QNX
- Low depth for installation: only 93 mm incl. connectors
- Customized keyboard layout and labelling (optionally)



### **Ideal use:**

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 1 GHz VIA ULV processor supplies MPEG hardware decoding.

## **Technical data BC3700**

### **Processor and memory**

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- VIA ULV, 1 GHz
- DDR2-SDRAM 256 MB (on board), optionally 512 MB
- Video controller MPEG-2 decoding, optionally MPEG-4
- Compact Flash Card  $\geq$  1 GB
- Slot for 2nd Compact Flash Card
- RTC (optionally with battery)

### **Display**

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- 10.4" TFT display
- Resolution VGA 640 x 480 pixels
- Illumination 450 cd/m<sup>2</sup> (typ. without glass plate)
- Automatic and/or manual illumination control
- 2 status LEDs for low/over temperature und key confirmation

### **Keyboard**

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

### **Interfaces**

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- Serial interfaces: 1 x RS422/RS485 (isolated) 2 x RS232
- Ethernet 10/100 MBit (on board)
- 2 x 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**

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- Wide input voltage range from 24 - 110 V DC (+/-40 %)
- Power consumption max. 45 W – in heating operation

### **Mechanics**

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

### **Environmental requirements**

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- Operating temperature range from -25° C up to +60° C (heating below +5° C)
- Separate electronics for temperature management
- Type tested acc. railway standards EN 50155 and EN 50121

### **Software**

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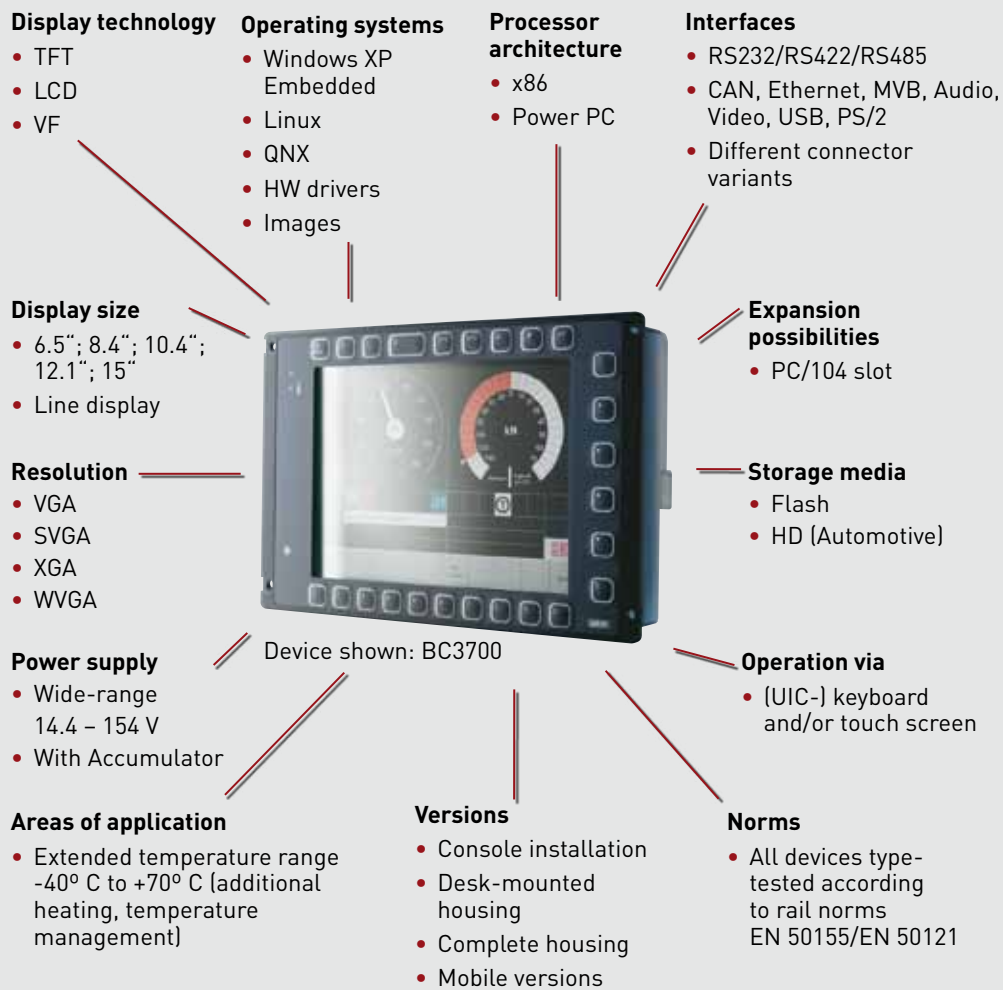
- Hardware specific drivers
- Operating system WIN XPe – optionally XP Pro e, MS-DOS, LINUX and QNX

### **Options/Versions**

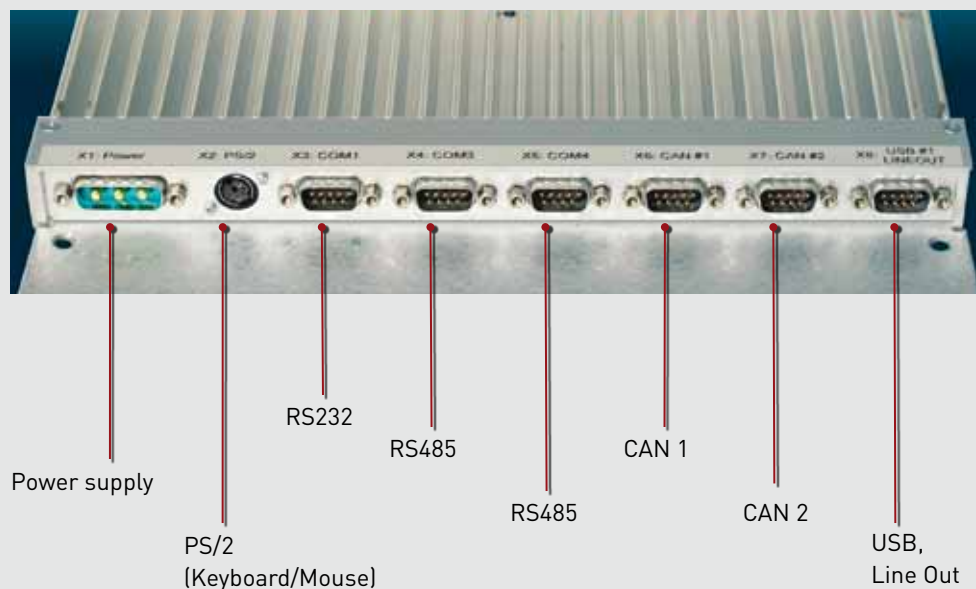
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- CAN (on board)
- Transflective display, SVGA , XGA
- Touch screen, keyboard (32 keys) acc. to UIC 612
- Audio, speaker, line Out
- Customized keyboard layout/lettering, logo on front
- Extended temperature range

Our modular device concept is the basis of all our product families – and of your customized solution:



## Back-mounted interfaces and connections BC3700 (sample variant)



# Get there safely. Under any conditions.



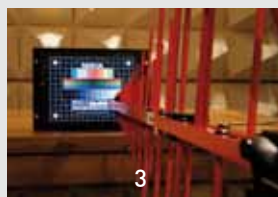
As the developer and producer of display and computer systems for rail vehicles and special vehicles, and an expert in special developments of embedded systems, we offer you:

- Decades of experience in the railway technology sector and industrial computer development
- Over 11,000 devices in daily railway operation
- One modular product concept for every customized solution
- Worldwide presence of our technology in rail vehicles
- Forward-looking obsolescence management
- Certification to ISO 9001:2008 and IRIS in preparation

Planning, design, development, production, type-testing and user training are all carried out solely and exclusively by GERSYS.

We have our own laboratory, approved by manufacturers, for testing and measurement in the following disciplines:

- Emitted interference
- Interference immunity
- Climate simulation
- Shock, vibration



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