GERSYS

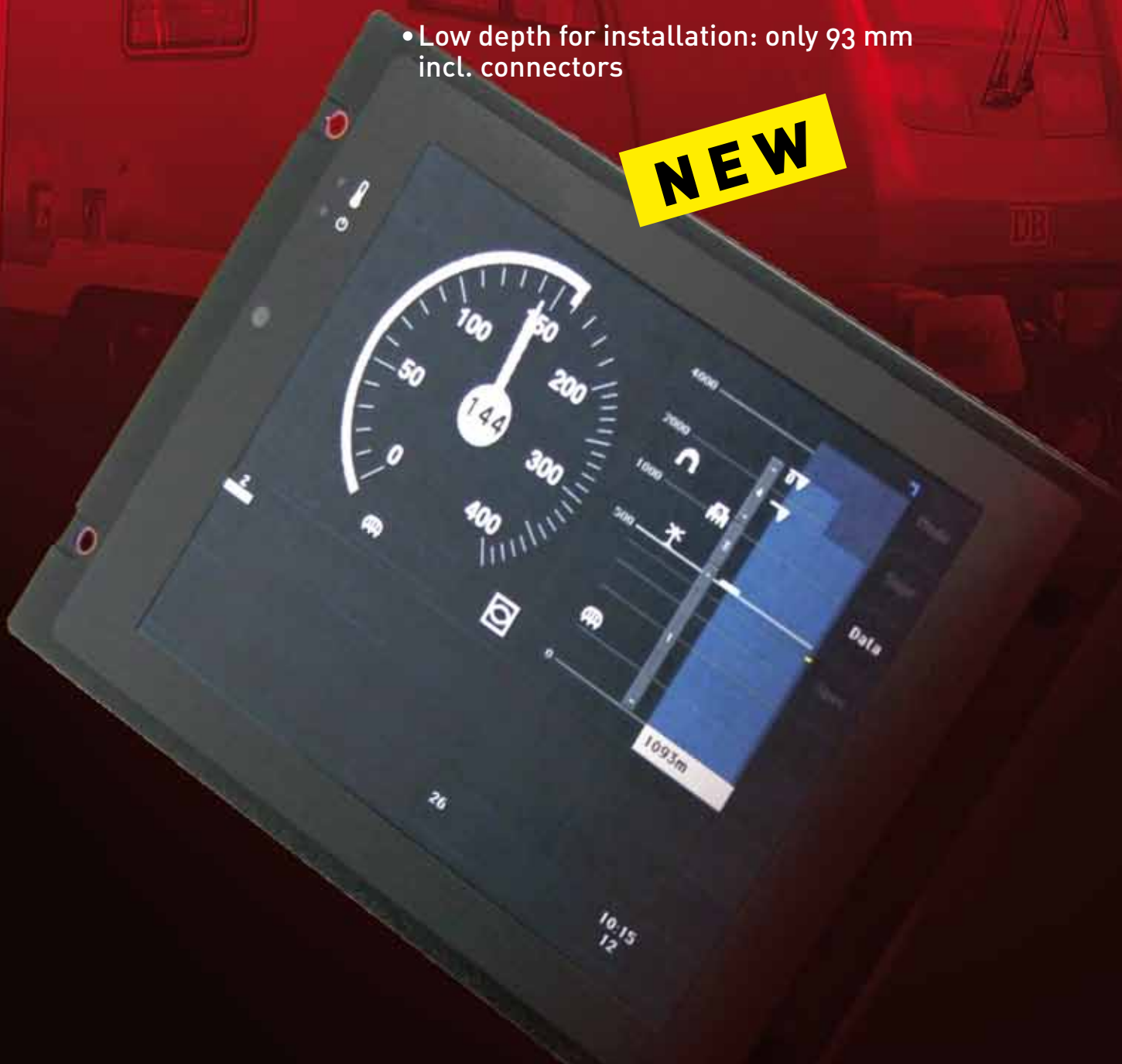
MMI technology for control equipment

Multifunctional display BC5700.

Vehicle displays

The powerful 12.1" SVGA compact unit

- High-performance processor: 1GHz, VIA ULV
- Robust resistive touch screen GFG (glass-film-glass)
- MPEG hardware decoding (e.g. 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



Ideal use:
The multifunctional display BC5700 differs to the BC3700 basically in the larger front unit with its 12.1" SVGA display and touch screen.

But the main housing keeps the compact dimensions of the BC37 series and the flexibility regarding interfaces, connectors, processor types and operating systems. Also for other mobile applications the BC5700 suits in an ideal way.

The multifunctional display is based on an industrial PC architecture (x86) for standard operating systems added with numerous railway specific features.

Technical data BC5700

Processor and memory

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

Display

- 12.1" TFT display
- Resolution SVGA 800 x 600 pixels
- Illumination 450 cd/m² (typ. without glass plate/touch)
- Automatic and/or manual illumination control
- 2 status LEDs for low/over temperature und key confirmation

Touch screen

- Robust resistive GFG (glass-film-glass) touch
- GFG technology reduces scratches and abrasion wear

Interfaces

- 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

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

Mechanics

- Built-in unit in steel sheet housing (RoHS compliant)
- Shock and vibration immunity
- W x H x D: 345 x 240 x 93 mm
- Low depth for built-in incl. connectors due to an optimized placing of connector panel
- Weight approx. 5.2 kg

Environmental requirements

- Operating temperatures range from -25° C up to +70° C (heating below +5° C)
- Separate electronics for temperature management
- Type tested acc. railway standards EN 50155 and EN 50121

Software

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

Options /Versions

- CAN (on board)
- Transflective display, XGA
- Audio, speaker, line out
- Logo on front
- Extended temperature range

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

Display technology
- TFT
- LCD
- VF

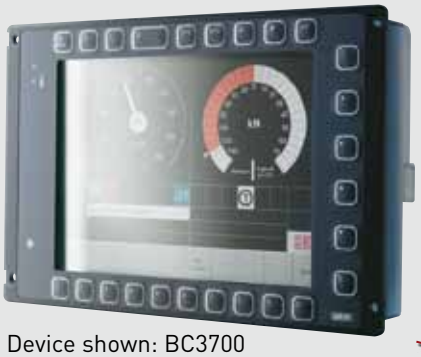
Operating systems
- Windows XP Embedded
- Linux
- QNX
- HW drivers
- Images

Processor architecture
- x86
- Power PC

Interfaces
- RS232/RS422/RS485
- CAN, Ethernet, MVB, Audio, Video, USB, PS/2
- Different connector variants

Display size
- 6.5"; 8.4"; 10.4"; 12.1"; 15"
- Line display

Expansion possibilities
- PC/104 slot



Device shown: BC3700

Resolution
- VGA
- SVGA
- XGA
- WVGA

Storage media
- Flash
- HD (Automotive)

Power supply
- Wide-range 14.4 – 154 V
- With Accumulator

Operation via
- (UIC-) keyboard and/or touch screen

Areas of application
- Extended temperature range -40° C to +70° C (additional heating, temperature management)

Versions
- Console installation
- Desk-mounted housing
- Complete housing
- Mobile versions

Norms
- All devices type-tested according to rail norms EN 50155/EN 50121

Back-mounted interfaces and connections BC3700 (sample variant)

Power supply

PS/2 (Keyboard/Mouse)

RS232

RS485

RS485

CAN 1

CAN 2

USB, Line Out

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

GERSYS®
MMI technology for control equipment

Display and computer systems for rail vehicles and special vehicles.

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