

Display Module BC5100

The powerful compact computer
with 15" XGA display



- Usage as diagnosis, controls and information display on motor vehicles of all kinds
- Supports all common vehicle bus systems (e.g. CAN bus, MVB)
- Low depth for installation – despite 15" display
- Operating systems WIN XPe, MS-DOS – optionally Linux and QNX
- Standard UTX module (Celeron 400 MHz) enables future processor upgrades
- PC/104plus slot for ISA and PCI bus cards

The display module BC5100 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 (but Linux/QNX as well) added with numerous railway specific features. And despite its 15" XGA display GERSYS' „Big One“ compact computer get along with a low depth for installation. Due to the standard UTX module which enables future processor upgrades, a high degree of investment certainty can be achieved with the BC5100. Also new operating systems can be loaded without major efforts.

Technical Data BC5100

Processor and Memory

- Low Power Celeron 400 MHz
- RAM 128 - 512 MB (optionally SO-DIMM with max. 512 MB)
- Video memory 2MB (non shared)
- Compact Flash Card 128 MB, optionally up to 8 GB
- Slot for 2nd Compact Flash

System Clock

- RTC with high accuracy
- Battery puffering > 10 years

Display

- 15" TFT display, non-reflecting
- Resolution XGA, 1024 x 768 pixels
- Illumination > 250cd/m²
- Illumination control via SW telegram
- MTBF for illumination \geq 50.000 h, with maximum intensity
- 2 status LED's for low/over temperature and CCFL illumination
- Reset key

Interfaces

- Serial interface RS 232
- 10/100 MBit Ethernet
- USB 1.1
- PC/104plus slot for ISA and PCI bus cards (e.g. for MVB)
- Port for external PS/2 keyboard/mouse
- Port for keypad

Power Supply

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

Mechanics

- Built-in unit in steel sheet housing, blue galvanized, frontplate black anodized
- Shock and vibration immunity
- WxHxD: 350 x 294 x 96mm
- Weight approx. 7.5kg

Environmental requirements

- Temperature range -10°C up to +55°C
- No fan
- Separate electronics for temperature management
- Complies with railway standards EN50155 and EN50121

Software

- Hardware specific drivers
- Operating systems WIN XPe, MS-DOS – optionally Linux and QNX

Options / Versions

- Interfaces: CAN, 2nd RS 232, RS 422/485 (isolated)
- Touch screen
- Enhanced temperature range
- Additional processor versions