

BS03

Onboard Panel PC



Features

- LCD 10.2"
- IP65 at front panel
- Protective glass
- 2xCompactFlash, 2xUSB, Ethernet, 2xCAN
- -50°C...+60°C, without fans and heating
- Shock/vibration: 10g/1g
- Windows, QNX, Linux

Overview

Onboard panel computer BS03 is intended for use in transport and industry with exposure to adverse mechanical and electromagnetic impacts in wide ambient temperature range.

The design of the product provides capability to be flexibly adapted to customer requirements.

Technical Specifications

System

- AMD Geode LX800 processor at 500 MHz
- 256 MB of soldered RAM
- 64 MB soldered flash-disk
- Two Compact Flash sockets
- SVGA controller:
 - 2D-accelerator
 - 60 MB graphics memory
- Hardware watchdog timer
- Real time clock

Display

- 10.4" diagonal
- Resolution: 800×600
- Luminance: not less than 420 cd/ml
- Contrast: not less than 600:1
- Viewing angles: ±70° horizontal, +60° -50° vertical at 10:1 contrast rate
- Automatic and manual brightness adjustment
- Glare filter
- Backlight lamp life not less than 50000 hours

Keyboard

- 25 front panel keys with backlight
- Adjustable backlight brightness
- "Hint" mode (keys backlight on/off individually)

Software Support

- FDOS 6.22
- Windows XPe, CE5.0
- Linux 2.6
- QNX 6.4

Interfaces

- Two CAN ports with galvanic isolation
- One null-modem RS232
- Two isolated RS422/RS485
- Ethernet 10/100 Mb/s, isolated
- Four USB ports (one at front panel)
- FBUS (for connection of Fastwel-IO distributed input/output system modules)
- Audio output: 3 W, microphone input
- 8 KB nonvolatile memory

System Expansion

- Up to two PC/104-Plus modules

Statistics gathering unit

registering and storing the following information

- Overall operation time
- Total time of storage at temperatures below -40°C
- The number of switches on, the last 16 with the date and time of switches on

Mechanical

- Dimensions: 310×214×116 mm (12.2"×8.4"×4.6")
- Weight: not more than 6 kg

Power

- Input power voltage: 36-72 V DC
- Power consumption:
 - Not more than 25 W during operation
 - Not more than 40 W in preliminary heating mode (switched on at -50°C to -40°C)

Environmental Conditions

- Operating temperature: -50°C...+60°C, without fans and heating
- IP65 dust and moisture protection for the whole enclosure
- Shocks/vibration: 10G/1G
- MTBF: 100 000 hours

Adaptation to customer's requirements

- Key symbols replacement with SCAN-codes reprogramming
- Functional expansion by installation of two PC/104-Plus modules
- Installation of custom type connectors and additional interfaces output
- Power voltage range variants
- Connection of Fastwel IO input/output modules and programming in CoDeSys environment

Warranty

- 3 years for parts and labor

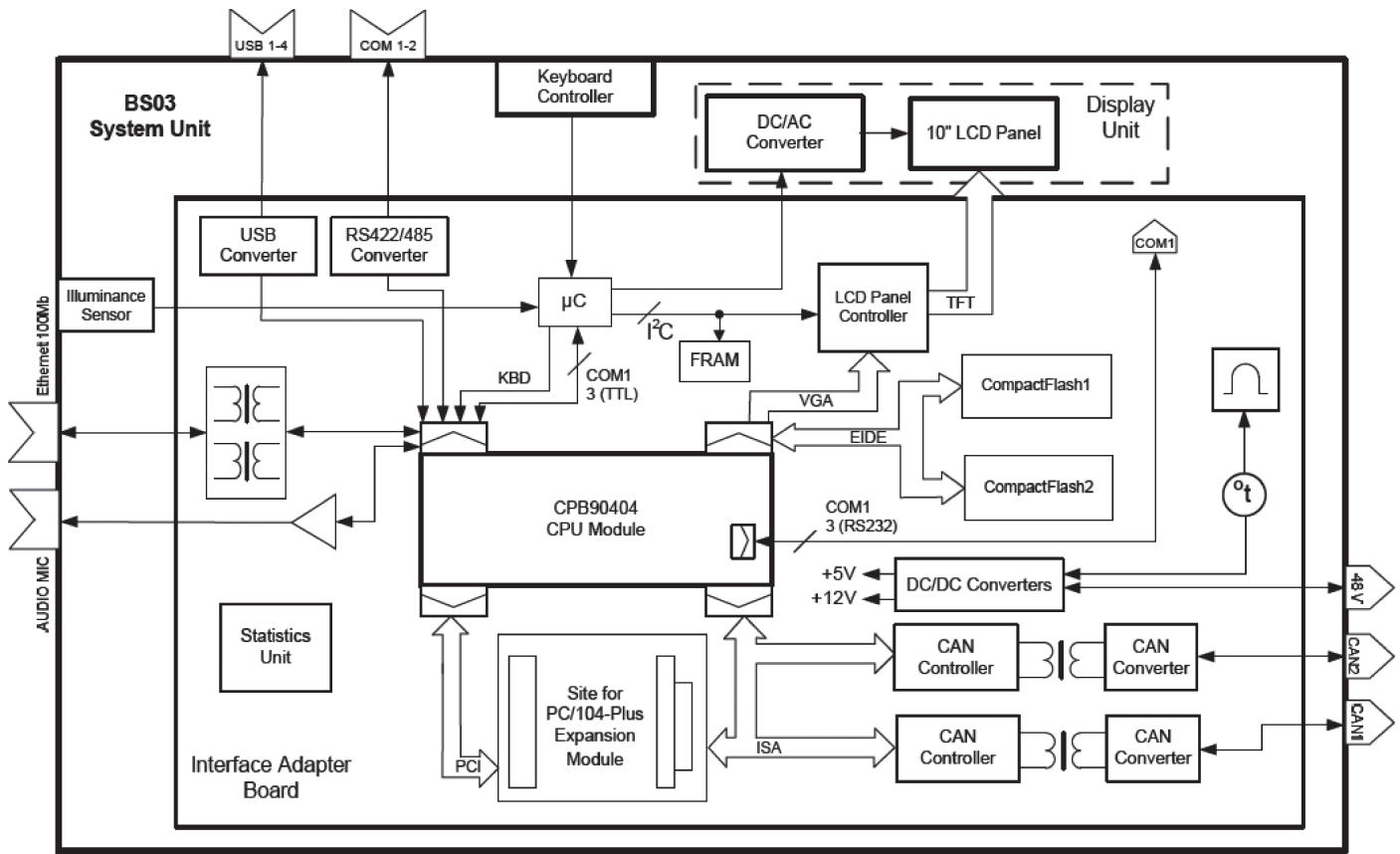
List of Deliverables

- BS03
- CD with documentation and software
- Set of counterparts for block connectors
- Null-modem cable
- Package

BS03

Onboard Panel PC

Block Diagram



Ordering Information

BS03 Configuration

BS03 - 01

Device Type

BS03 Onboard panel PC, AMD Geode LX800, 10.4" display, 800x600, 2xCAN, 3xCOM, LAN, 4xUSB, Audio, FBUS, 36-72V DC

Example

BS03-01

Onboard panel PC, AMD Geode LX800, 10.4" display, 800x600, 2xCAN, 3xCOM, LAN, 4xUSB, Audio, FBUS, 36-72V D

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Product specifications are subject to change without notice