# **BS03 Rugged HMI Panel PC**



### **Features**

- LCD 10.4"
- IP65 at front panel
- Protective glass
- 2×CompactFlash, 2×USB, Ethernet, 2×CAN
- –50°C…+60°C, without fans
- Shock/vibration: 10g/1g
- Windows, QNX, Linux

## **Overview**

Rugged HMI Panel PC 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/m<sup>2</sup>
- · Contrast: not less than 300:1
- 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 50 000 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 RS-232
- Audio output: 2×1 W
- Ethernet 10/100 Mb/s, isolated
- Four USB ports (one at front panel)

### **System Expansion**

• With one PC-104 Plus modul

### **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 swtches on

#### **Mechanical**

- Dimensions: 310×214×116 mm (12.2"×8.4"×4.6")
- · Weight: not more than 4 kg

#### **Power**

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

#### **Environmental Conditions**

- Operating temperature:
- -50...+60°C, without fans · IP54 dust and moisture protection for the whole
- enclosure and IP65 at front panel 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 PC/104-Plus module
- · 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

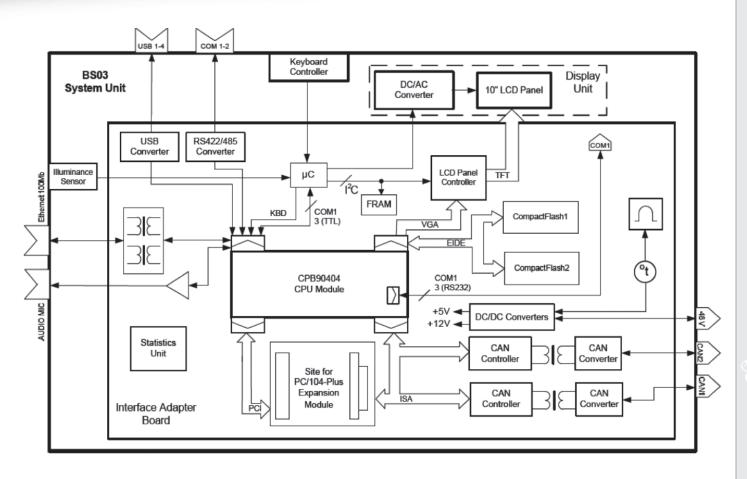
### Warranty

· 3 years for parts and labor

#### **Delivery checklist** BS03

- · Set of counterparts for block connectors · Null-modem cable
- Package

## **Block Diagram**



## **Ordering Information**

## **BS03 Configuration**

### BS03 - 01

#### **Device Type**

BS03 Rugged HMI Panel PC, AMD Geode LX800, 10.4" display, 800×600, 2×CAN, 3×COM, LAN, 4×USB, Audio, FBUS, 36-72 V DC

#### Example

#### BS03-01

Rugged HMI Panel PC, AMD Geode LX800, 10.4" display, 800×600, 2×CAN, 3×COM, LAN, 4×USB, Audio, FBUS, 36-72 V DC

## **Corporate Offices**

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