BRPD01
Data Registration and Transfer Unit

Features

- CPU Intel Pineview-M (-D) 1.66 GHz Dual Core (D510)
- RAM 1 GB, soldered
- Flash Drive: 4 GB NAND, soldered
- CFAST SATA DISK slot (up to 256 GB)
- GPS\GLONASS
- GSM\GPRS
- Wi-Fi 802.11 a/b/g/n
- Support of 6 independent CAN2.0 channels or 2 MVB channels
- RS-485
- 3×Ethernet M12 10\100
- Output of graphics data to LVDS or VGA panel
- Conductive cooling
- Uninterruptible power supply with system support for 2 minutes
- 8×Digital LED
- Supported OS: FREEDOS 6.22, Windows XPe, CE 5.0, Linux 2.6
- Operating temperature range: –40°C to +80°C

Technical Specifications

Overview

BRPD01 is designed for determining loco-motive's geographic position using GLONASS and GPS navigations systems, logging of data related to locomotive operation, wireless transfer of diagnostics information over GSM and Wi-Fi channels and should provide:

- Data acquisition via wire and wireless interfaces;

- Data transfer via wire and wireless inter-faces;

- Processing of the received information using computing environment of the sys-tem;

- Storing information on portable data storage devices;

- Monitoring of external factors, support-ed by system sensors.

BRPD01-01 is designed for data exchange using Multifunctional Vehicle Bus (MVB). The device also enables registration of data regarding locomotive operation, transfer of diagnostics information and should provide:

- Data acquisition via wire interfaces;

- Data transfer via wire interfaces;

- Processing of the received information using computing environment of the sys-tem;

- Storing information on portable data storage devices;

- Monitoring of external factors with sys-tem sensors support.

System
- CPU Intel Pineview-M (-D) 1.66 GHz Dual Core (D510)
- RAM 1 GB, soldered
- Flash Drive: 4 GB NAND, soldered
- CFAST SATA DISK slot (up to 256GB)

Interfaces
- GPS\GLONASS (except for BRPD01-01)
- GSM\GPRS (except for BRPD01-01)
- Wi-Fi 802.11 a/b/g/n (except for BRPD01-01)
- Support of 6 independent CAN2.0 channels or 2 MVB channels
- RS-485
- 3×Ethernet M12 10\100
- Output of graphics data to LVDS or VGA panel

Mechanical
- Dimensions of the unit should not exceed (Width x Height x Depth) BRPD01: 300×200×140 mm
- Conductive cooling
- 8×Digital LED

OS Compatibility
- Supported OS: FREEDOS 6.22, Windows XPe, CE 5.0, Linux 2.6.

Power Supply
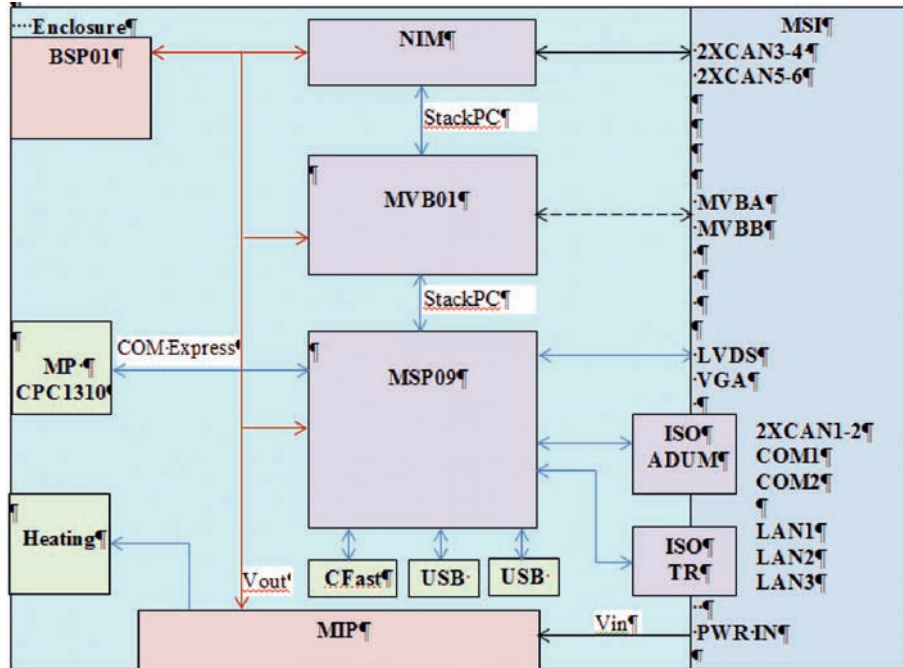- Uninterruptible power supply with system support for 2 minutes

Environmental
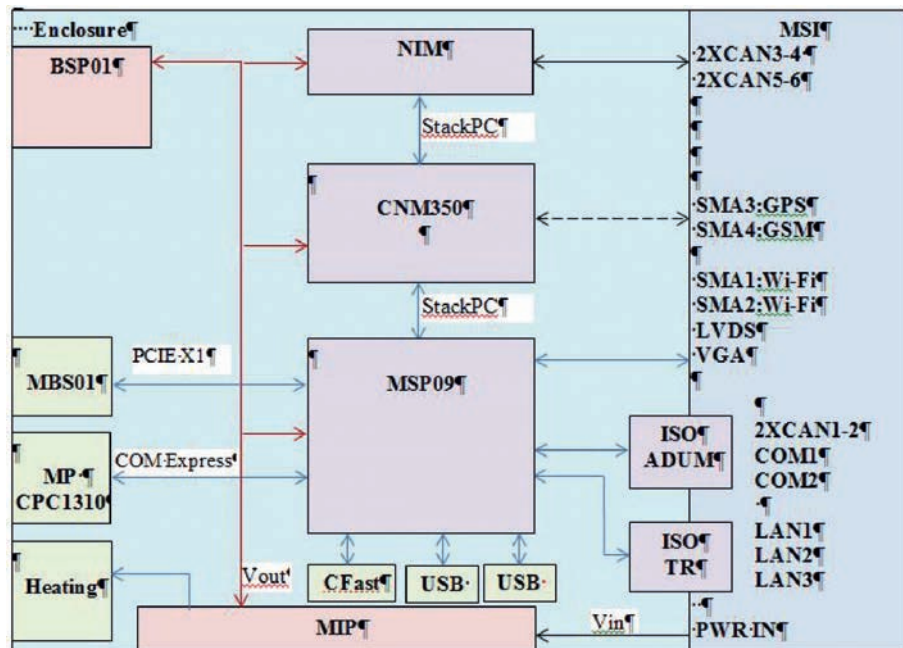- Operating temperature range: –40°C to +80°C

Block Diagram

BRPD0

BRPD01-01

Ordering Information

BRPD01 Configuration

BRPD01 - 01 \Options

Versions

BRPD01   CPU Intel Pineview-M (-D) 1.66 GHz Dual Core (D510), RAM 1 GB soldered, NAND Flash 4 GB soldered, CFAST SATA DISK slot (up to 256 GB), GPS\GLONASS, GSM\GPRS, Wi-Fi 802.11 a/b/g/n

BRPD01-01   CPU Intel Pineview-M (-D) 1.66 GHz Dual Core (D510), RAM 1 GB soldered, NAND Flash 4 GB soldered, CFAST SATA DISK slot (up to 256 GB)

Options

\Coated   Conformal coating

Delivery checklist

BRPD01 delivery checklist contains:

1. BRPD01/BRPD01-01 Data Registration and Transfer Unit
2. Package

Ver.1.03.2014

Product specifications are subject to change without notice

Corporate Offices

EN 50155 Compliance

ISO 9001:2008
EC.C.O.02.01.000823-12

READY FOR
RoHS