

# BRPD02

## Data Logging and Transfer Unit



### Features

- CPU: i.MX6 Quad Core 1GHz ARM
- RAM: 4 GB DDR3L
- FLASH-Disk: 32 GB eMMC
- Power consumption: No more than 25 W in the standard operating mode, no more than 40 W in the pre-heating mode
- Protection class – IP41
- Operating temperature range: from –50 to + 60°C
- Resistance to mechanical stress: group M25 in accordance with the GOST standard 17516.1 90
- Single shocks/Multiple shocks: 20g/10g

### Overview

**BRPD02** represents a stand-alone device designed for wireless transfer of data on the state of rolling stock equipment and carrying out:

- Connection to the data highway of the rolling stock over CAN and Ethernet communication channels, for the purpose of obtaining information on the state of equipment;

- Archiving and further storage of the information received;

- Transfer of data over GSM wireless communication channel being aboard of the rolling stock;

- Obtaining current information on the location of the rolling stock using GPS/GLONASS positioning systems.

### Technical Specifications

#### CPU

- i.MX6 Quad Core 1GHz ARM

#### RAM

- 4 GB DDR3L

#### FLASH-Disk

- 32 GB eMMC

#### External interfaces

- CAN2.1B – 2x channels
- Ethernet 1 Gb – 1x channel
- RS-232 – 1x channel (debugging)
- USB2.0 – 3x channels
- GPS/GLONASS
- GSM (900/1800 MHz)
- Connectors for CFast drive – 1 pcs
- Connectors for SIM-cards – 2 pcs
- Connector for the module in PCIe format – 1 pcs.

#### Electric supply of BRPD02

- From an external DC power supply source with a voltage of 35...160 V

#### Availability of the integrated UPS

- Makes it possible to operate up to 30 seconds after the power supply failure

#### Power consumption

- No more than 25 W in the standard operating mode
- No more than 40 W in the pre-heating mode

#### Enclosure protection class– IP41

#### Operational conditions

- In cabins of locomotives under the conditions of moderately cold climate, climatic category “U”, “2” location environmental class in accordance with the GOST standard 15150-69
- Operating temperature range – from –50 to +60°C
- Within the temperature range – from –50 to –40°C the unit is activated with a time delay of no more than 15 minutes R
- Upper value of the relative humidity at the temperature +25°C – 100%
- Dew fall and frost generation with subsequent defrosting is considered acceptable

#### Resistance to mechanical stress

- Group M25 in accordance with the GOST standard 17516.1 90
- Sinusoidal vibrations in the range of frequencies from 5 to 150 Hz with acceleration peak value up to 1g
- Single shocks with a peak acceleration up to 20g
- Multiple shocks with acceleration up to 10g

# BRPD02

## Data Logging and Transfer Unit

### Ordering Information

### BRPD02 Configuration

#### BRPD02

##### Version

BRPD02 Data logging and transfer unit BRPD02 based on CPU i.MX6 Quad Core, 2×CAN, 1×LAN, 1×RS-232, 3×USB, GPS/GLONASS, GSM (900/1800 MHz), 1×CFast, 2×SIM, 35...160 V

#### Delivery checklist

##### BRPD02 delivery checklist contains:

1. BRPD02 Data Logging and Transfer Unit
2. Package

### Corporate Offices

#### FASTWEL GROUP Co., Ltd

108 Profsoyuznaya str.  
Moscow, Russia 117437  
Tel: +7 (495) 232-1681  
Fax: +7 (495) 232-1654  
E-mail: info@fastwel.com  
Web: www.fastwel.com

Ver.1.10.2018

Product specifications are subject to change without notice

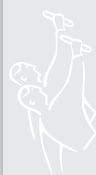
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