

DinBox RTU SL

Industrial GPRS RTU

Designed by Bausch Datacom!

GPRS RTU

The DinBox RTU SL is a complete GPRS SCADA communication device in a DIN-rail housing and is conceived to operate via several communication protocol environments (IEC 60870-5-104, NMKD-3085 ASCII). The product is a unique IEC 60870-5-104/Modbus mapping device for monitoring, alarming & controlling. Registration and storage of measured values and sample rates are made possible by the integrated memory card.



Product Highlights

- GPRS Communication
- IEC 60870-5-104/Modbus mapping
- I/O
- Supercap 'Last gasp'
- DINrail

Typical Applications

- Substation IP communication with SCADA systems or central dispatch
- IEC-60870-5-104 or NMKD-3085 protocol between substation and control station
- SCADA installations in industries such as power and distribution, water and gas applications, oil and gas production
- Distributed Control Systems (DCS), PLC...
- Alarm management through SMS with ACK

BAUSCH DATACOM

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DinBox RTU SL specifications

The DinBox RTU SL is a complete GPRS SCADA communication device in a DIN-rail housing and is conceived to operate via several communication protocol environments.

Housing

- Type: Phoenix Dinrail enclosure
- Housing material: Reinforced polyamide fiber
- Housing type: DINrail housing side element, two pieces necessary to close base element, 1,5mm thick.
- DINrail snapslot for easy DINrail mounting
- Color: green
- Dimensions housing: : 172 mm x 35 mm x 135 mm
- Ambient temperature (operation) -40°C +105°C
- Inflammability class acc. to UL 94: HB
- Power dissipation at 20°C in horizontal mounting position: 8.9W 18.3W
- IP51

Power Supply

- 85-264 AC or 9-25V DC
- Watchdog reset
- Supercap backup or NiMH rechargeable battery pack

Communication Engine

- Built-in SL6087 Quad-band 800/900/1800/1900 MHz GSM/GPRS
- modem with internal TCP/IP stack
- Long term watchdog
- Magnetical Dual band FME antenna included
- Integrated 3V SIM card reader (SIMcard accessible without opening)
- Communication protocol: GPRS Class 10 / CSD / SMS
- GSM data : asynchronous transparent mode
- Flow control (RTS/CTS – XON/XOFF) and speed buffering
- Automatic format and speed sensing (300 to 115.200 bps)
- AT command set support
- Circuit-switched 14.4 Kbps data and Group 3 FAX (Class 1 and 2)

Certification

- CE

Communication Protocols

- IEC 60870-5-104
- NMKD-3085 ASCII
- FTP
- 'TMX' proprietary
- Modbus

Processors

- RTC: 10 ppm
- Global management of hardware: Atmel Xmega 256K

Memory

- 2x FRAM 64K
- SD card slot (SPI connection to the µp)
- - accessible without opening enclosure
- - Optional: 4 Gig TS2GSDC card or other

Interface & Connectors

- 8 galvanically isolated active digital input channels
 - Active 24Vdc/dc
- 2 galvanically isolated digital output channels
 - max. 120 mA load
- 2 analog non-isolated input channels
 - 12 bit single ended ADS's
 - Input impedance 100KOhm
 - Measurement precision > 1%
 - Input voltage: 0-5Vdc
 - 0-5Vdc AI (connected to the ATMEGA2561)
- Local communication (console port)
for configuration using RJ-45 to DB9 serial cable
 - Terminal software program (e.g. Hyperterminal) must be used to communicate with the micro-RTU.
- RS-232 communication port
- RS-485 communication port

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