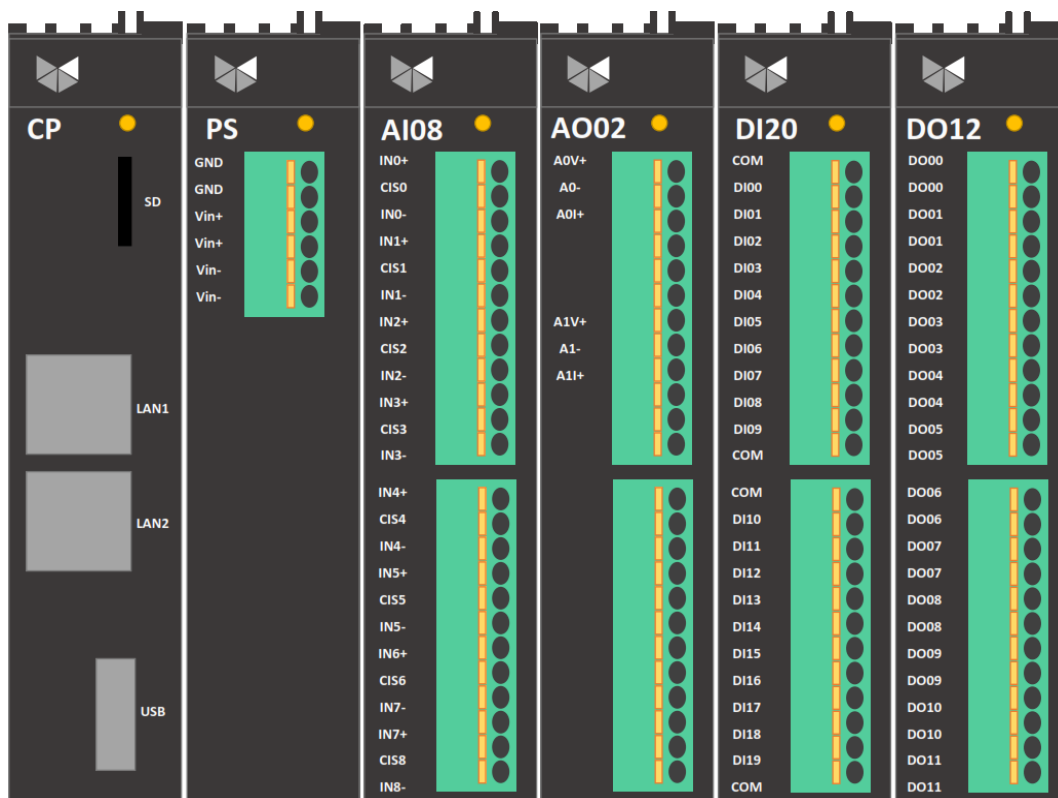


RTU32M Data Sheet

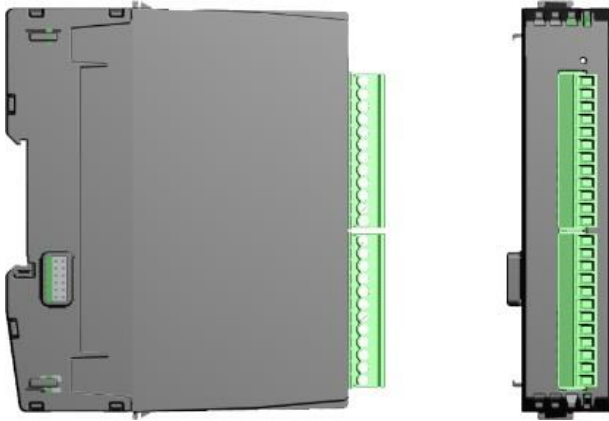
Brodersen Modular RTU

Data Sheet
January 2019





Introduction



Brodersen Modular RTU32M Series with advanced RTU/PLC functionality.

The RTU32M series is based on an embedded 32-bit industrial platform providing flexible RTU functionality for a wide range of remote monitoring and control applications in the utility and infrastructure markets.

Each RTU32M comprises of a CPU module, power supply module and the desired mix of IO modules and system modules, as required.

The RTU32M supports a variety of standard and open protocols such as Modbus, IEC60870, IEC61850 and DNP3. It also includes the fast event based Binding protocol - a fast and reliable way to distribute time stamped event data between any Brodersen RTU32M in the network.

The RTU32M has a web server configuration interface for setup of the RTU 'personality' e.g. IP address, IO range, Slave address etc. Additional RTU functionality, including logic, messaging and logging are configured in the Brodersen WorkSuite.

Each module is housed in a robust plastic enclosure suitable for DIN rail mounting. The RTU32M modules are 110mmH, 25mmW and 110mmD.

The RTU32M power supply module operates from 10-30VDC.

The RTU32M local IO bus supports up to 250 I/O modules.

FEATURE LIST

- Modular RTU with or without integrated I/O and communication device.
- Reliable Real Time Operating System.
- Communication Protocols Supported;
 - Full Modbus suite.
 - IEC60870-5-101/103/104
 - IEC61850 Client / Server Protocol.
 - DNP3 Master and DNP3 Slave.
 - Binding - Global Distribution and Subscription of Event Based Time Stamped Variables.
- Communication Protocols can also be created as part of the logic application interface.
- Communication interfaces; 2 x Ethernet 10/100, 1x USB are featured on the CPU module.
- Full EN/IEC61131 PLC runtime – also used for special and flexible data manipulation.
- Includes power supply monitoring of the RTU32M supply voltage and temperature
- Support for redundant power supplies
- Hot swappable IO.
- Full remote management with configuration, programming and flexible distribution of all levels of software from and to RTUs on remote locations.



MP32A, MP32E CPU – Controller Module

The CPU module speed is managed via the RTU performance license options:

Default	200MHz
DL-528MHZ-RL	528MHz
DL-900MHZ-RL	900MHz

The default RAM size is 128MB, performance license option DL-256MB-RL allows 256MB

RTU32M PLC RUNTIME

PLC Runtime performance:

Minimum cycle time:	1msec
Typical cycle time:	2msec

Maximum PLC variables: 2 x 20kb – calculated as sum of all variables.

Scan time internal I/O: Min. 2msec

SMART IO

I/O Detection and Configuration

Self discovering I/O...

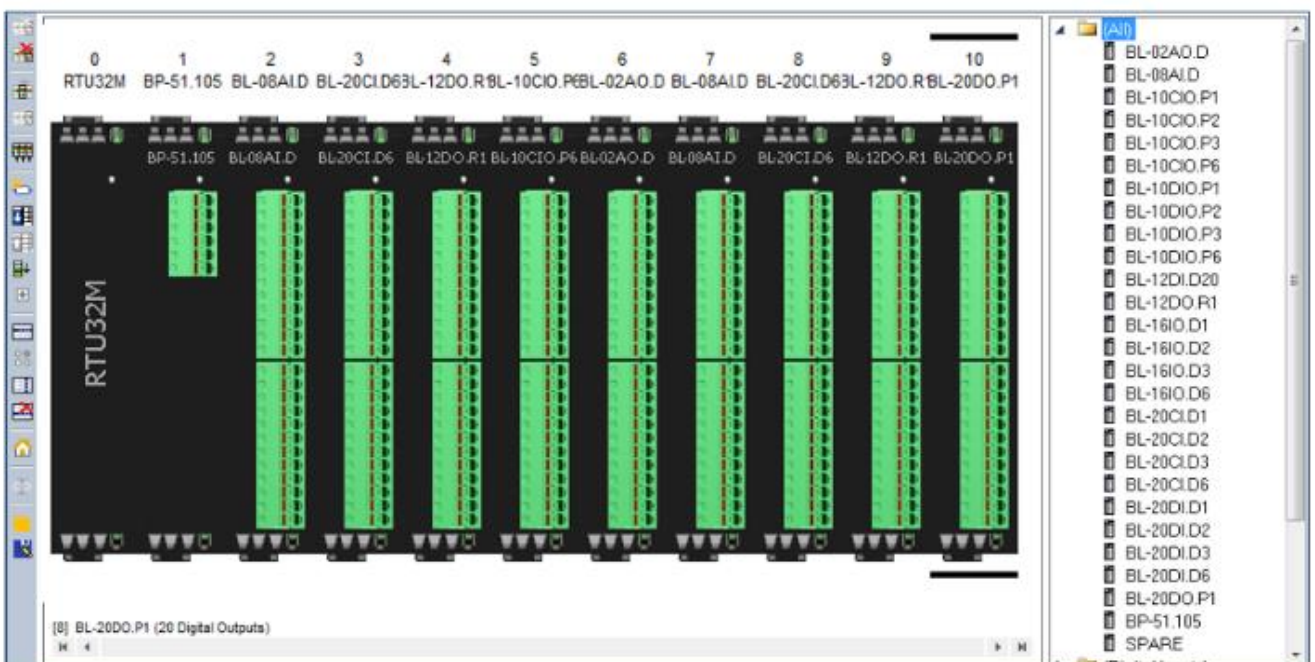
CPU HARDWARE

CPU: ARM Cortex – A7
Freescale i.MX6UL, 200-900 MHz

Memory: RAM: 128-256MB SDRAM
NAND Flash: 128MB
NVRAM/FRAM: 128KB
Micro SD Card Flash disc – removable

RTC: Integrated and battery backed RealTimeClock with 1 msec resolution

Interfaces: LAN: 2x 10/100Mbps RJ45
1 x USB 2.0 Host.
1x USB OTG Micro-B for maintenance and diagnostics.





EMC, Safety and Environmental standards (all modules)

EMC: IEC 61000-6-2, IEC 61000-6-4

Safety Requirements: IEC 60950-1

Climatic:

- Damp Heat: IEC 60068-2-30

- Damp Heat Steady: IEC 60086-2-3

- Dry Heat: IEC 60086-2-2

Mechanical:

- Vibration: IEC 60255-21-1

- Shock: IEC 60068-2-27

- Shock and Bump Test: IEC 60255-21-2

Isolation:

2000 VAC input to electronics, 1 minute.

Ambient temperature range:

-40°C to +70°C

Remote Management

Products:
eWON Netbiter



Remote Access and Remote Data

Products:
eWON Flexy & Cosy



Wireless access

Products: Anybus Wireless Bridge
Anybus Wireless Bolt, IXXAT CANblue II



CAN infrastructure

Products:
IXXAT CAN products



PC Interfaces

Products:
IXXAT PC cards
IXXAT INpact



Functional safety

Products:
A a



Embedded multi-network connectivity

Products: Anybus CompactCom



Multi-network connectivity

Products: Anybus at ay
Anybus Communicator



Connectivity solved!



Todo en Redes Industriales, Buses de Campo, Control de Proceso.

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