

RTU32R

Product overview/versions

The RTU32R Series for 19" rack mounting are available in a number of versions.

RTU32R Versions

RC-60IO/221B0100.P3

RTU32R with 48 digital inputs 30-60VDC PNP, 8 Relay outputs, 4 analogue inputs, 2 x LAN, 2 x RS232 and LocalBus for I/O Expansion. Power supply 12-16VDC

RC-60IO/221B0100.P6

RTU32R with 48 digital inputs 10-30VDC PNP, 8 Relay outputs, 4 analogue inputs, 2 x LAN, 2 x RS232 and LocalBus for I/O Expansion. Power supply 12-16 VDC.

RC-60IO/221B0110.P3

RTU32R with 48 digital inputs 30-60VDC PNP, 8 Relay outputs, 4 analogue inputs, 2 x LAN, 2 x RS232 and LocalBus for I/O Expansion. Power supply 115-230VAC/DC.

RC-60IO/221B0110.P6

RTU32R with 48 digital inputs 10-30VDC PNP, 8 Relay outputs, 4 analogue inputs, 2 x LAN, 2 x RS232 and LocalBus for I/O Expansion. Power supply 115-230VAC/DC.

RC-60IO/221B0130.P3

RTU32R with 48 digital inputs 30-60VDC PNP, 8 Relay outputs, 4 analogue inputs, 2 x LAN, 2 x RS232 and LocalBus for I/O Expansion. Power supply 24-48VDC.

RC-60IO/221B0130.P6

RTU32R with 48 digital inputs 10-30VDC PNP, 8 Relay outputs, 4 analogue inputs, 2 x LAN, 2 x RS232 and LocalBus for I/O Expansion. Power supply 24-48VDC.

RTU32R

The universal controller for your infrastructure and utility application



19" RTU, PLC and SNMP Alarm and Control Device

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RTU32R

The Flexible SNMP Alarm and Control Device

The RTU32R is one of the most powerful and versatile SNMP Alarm and Control devices on the market.

Besides offering all the standard SNMP Agent functions like Trap, Get and Set, the RTU32R also provides you with standard programmable functions. Any kind of special control and communication functions can be programmed in a standard IEC61131-3 PLC language suite supporting 5 different ways of programming. This means that with the RTU32R you will be able to meet any end customer requirements.

The benefit of using the local control and management functions provided in the PLC program facility is that it can be used for:

- Enhanced intelligent alarm handling and control
- Local independent control functions like access control, dedicated UPS monitoring, power consumption monitoring and reporting, controlled actions like special shut down procedures and much more
- Fast and event based reliable distribution of digital or analogue I/O signals from any remote site to another. Even string messages are distributable
- Data communication with on-site equipment with a range of serial or Ethernet based drivers – e.g. meters, charger controllers and HVAC systems
- Data logging of time stamped events in standard CSV files. You can freely design what and how and apply time stamps to logged event with up to milliseconds resolution

All software including the actual configuration is placed on a replaceable Flash disc.

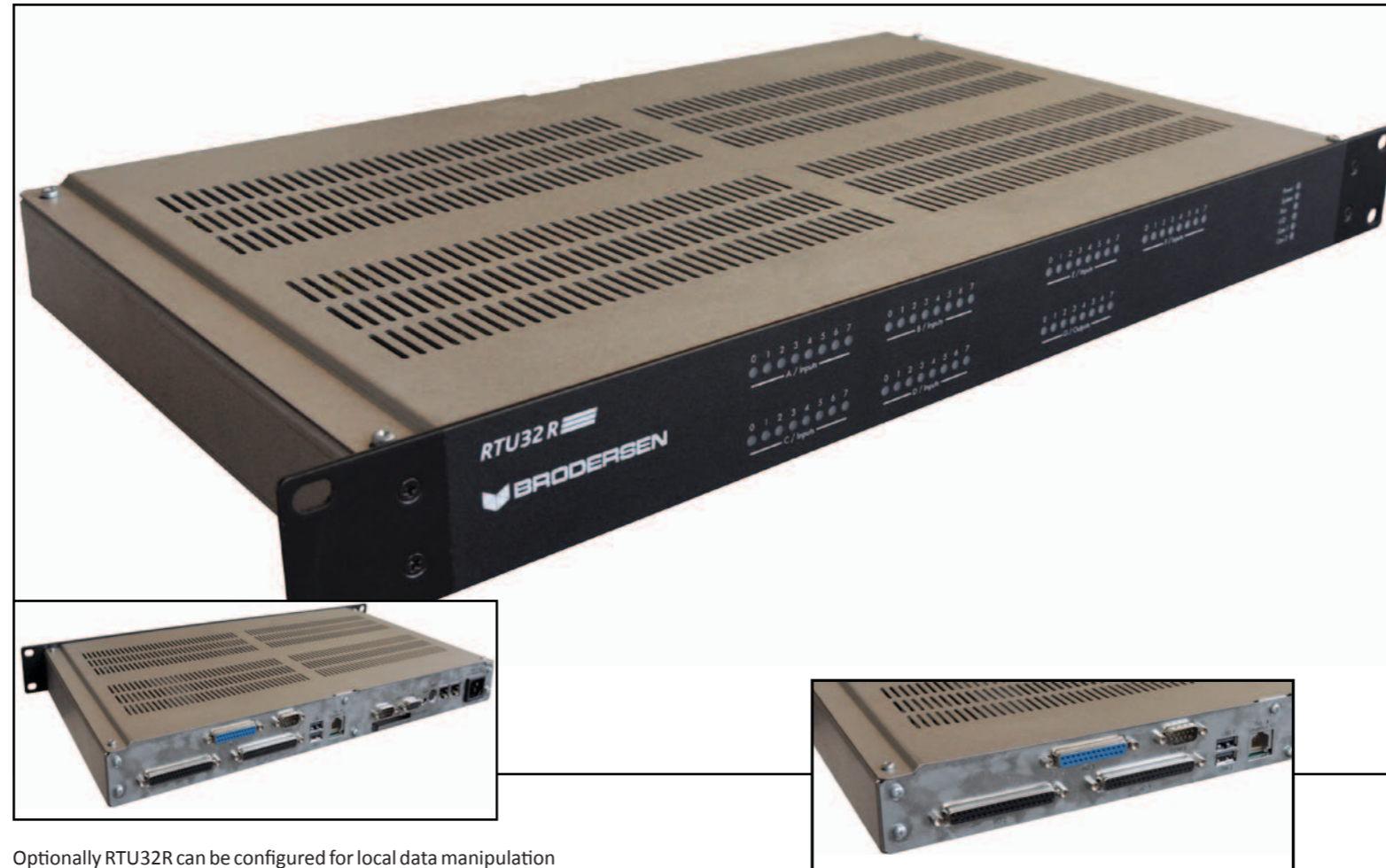
Software

The general Windows CE Operating System provides in addition the general Microsoft SNMP Agent which will provide SNMP information regarding the general network interfaces, Ethernet statistics etc.

All standard Windows CE protocols like HTML, SNMP, SMTP, SNTF, FTP, PPP, Telnet etc. are supported. In addition RTU32R supports some extended functions used on the standard protocols ensuring secure facilities for remote configuration and programming. Even complete remote upgrade/update of the OS is possible.

Configuration and Programming

The RTU32R is configured via the integrated WebServer using a standard web browser. All network settings and SNMP configuration of SNMP Traps, Get, GetNext and Set settings for physical I/O can be configured directly. For analogue I/O you can assign several alarm limits and define use of Trap and/or only handled via Set/Get commands from your Network Management System.



Optionally RTU32R can be configured for local data manipulation via a standard full IEC61131 PLC runtime function. It can be programmed in any of the 5 IEC61131 compliant languages like e.g. Function Block or Structured Text programming. Only your imagination set the limit.

You can use Visual Studio and C++ or C# programming to manipulate data before sending it using SNMP. Software Development Kit and Toolkit are available from Brodersen A/S offering example codes etc.

Flexible I/O Configuration

RTU32R is available with integrated inputs/outputs and a number of I/O Expansion modules can also be connected to the RTU32R supporting both digital and analogue inputs.

All digital inputs and outputs status are available via LEDs on the front of RTU32R.

Build-in I/O and I/O expandability of up to thousands of digital and analogue inputs/outputs signal makes it suitable for any size of application – handled in one platform.

Hardware and connectivity

RTU32R is based on a 32bit 500MHz platform with 128Mb RAM and removable 128Mb Flash in standard configuration. It offers 3 basic power supply versions: 115-230VAC/DC, 24-60VDC and 12 VDC.

Communication interfaces includes:

- 2 x LAN 10/100 Mbit Ethernet interfaces
- 2 x RS232 interface for connecting local devices or modems
- 2 x USB interfaces e.g. for keyboard or memory devices
- 1 x VGA interface for connecting monitor
- 1 x PS/2 interface for connecting mouse and keyboard
- LocalBus RJ45 interface for I/O Expansion device connection
- 3 x Sub-D female connections for internal I/O

All connections are available on the backplane of the RTU32R.

Enclosure

Both the RTU32R and the IOR I/O Expansion units are designed in 19" Racks format, 1U height and dept of up to 300mm.

Technical Specifications

CPU: AMD Geode 500 MHz
RAM: Standard 128 Mb – expandable up to 1 GB
Flash: Standard 128 Mb CompactFlash industrial graded – expandable up to 2 GB

LAN: 2 x 10/100 Mbit Ethernet

COM: 2 x RS232 COM port speed up to 115.200baud
PS2: Mouse/keyboard interface
USB: 2 x USB v2.0

VGA: For monitor

Power supply: 24-60 VDC nominal (20-72V), 115-230 VAC/DC nominal (90-265V) or 12-16 VDC nominal (10,4-18VDC)

I/O LocalBus: Support for up to 32 I/O devices > 1000 I/Os

Driver & protocols:

- SNMP Agent
- IEC60870 Suite
- IEC61850 Suite
- IEC61400-25
- DNP3 Suite
- WITS DNP3 Slave
- Full Modbus Suite
- COMLI Master
- ProfiNet Client

Environmental specifications

Ambient temperature
Operation: -20 – 60°C
Storage: -40 – 75°C

Climatic:
Dry heat: IEC 68-2-2
Cold: IEC 68-2-1
Damp heat: IEC 68-2-3

EMC/LVD:
EN55022:1998 Class A
EN61000-3
EN55024:1998
EN61000-4
EN 61000-6-2
EN 61010-1