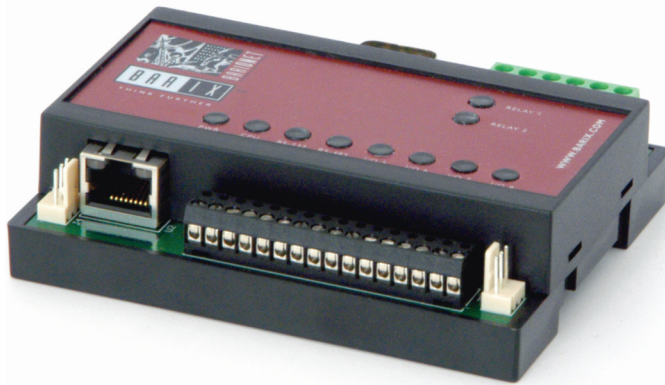




BARIONET

100

Universal network-enabled automation interface for home automation, commercial control and monitoring applications



10/100 Mbit Ethernet connection, RS-232 and RS-422/485 serial interfaces, 12 configurable I/Os, 2 relays (240 V, 5 A)

Bus connections for additional I/O devices, power modules, temperatur sensors etc.

Supports TCP/IP protocol suite, integrated webservice/client, application protocols Modbus/TCP, SOAP, SNMP, etc.

User programmable in BASIC dialect

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Technical Specifications

I/O Interfaces:

2 relay outputs (240 VAC 5 A)
4 digital inputs (0..12 V), configurable pullups
4 universal inputs (analog 0..5/10 V or digital 0..12 V) with configurable pullups
4 digital outputs (open collector, 24 V 0.1 A)
2 Barix extension bus connectors with Dallas I-Wire® capability

Serial Interfaces:

1 RS-232 * (DSub-9 male, RX/TX only)
1 RS-422/485 * (2/4-wire)
* 600..19'200 Baud, 7/8 bit, Odd/Even/No par

Network Interface:

RJ45 10/100 Mbit Ethernet (Autodetect)
TCP/IP, UDP, ICMP, DHCP, AutoIP, IPzator™, XML, SOAP, Modbus/TCP, SNMP, CGI, HTTP web server for control, status and configuration

Misc:

8+2 LED status indicators

Power input:

12..24 VDC (±20%)

Case:

high quality plastic, 160 g, DIN-rail mount.
4.13" x 3.34" x 1.1", 105 mm x 85 mm x 28 mm

Reliability, environmental conditions:

MTBF: Min. 205'000h acc. to MIL217F at 24 VDC supply and 40°C ambient temperature
Operating temp.: 0 to +50°C / 32 to 104°F,
storage temp.: 0 to +70°C / 32 to 158°F,
both 0 - 70% relative humidity, non-condensing

Certifications:

FCC (A and B), CE (A and B)

User Interface:

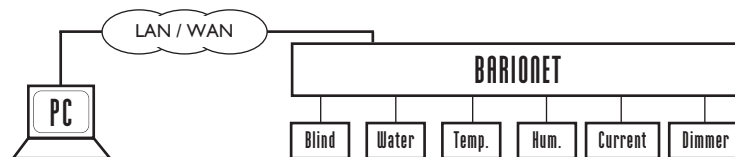
browser based (integrated webserver),
serial port or ethernet control API

Overview

Barionet is a fully programmable network controller for interfacing devices to open, IP-based networks. With the Barionet, any device can be network-enabled and easily controlled via web browser and standards-based automation systems.

Barionet is a modular component that operates either stand-alone or with other units, web servers and control systems, thus capable of building large, intelligent, distributed systems for a wide variety of commercial control, monitoring, and home automation applications.

Numerous inputs and outputs make the device ideal for any kind of interfacing application. Barionet features twelve I/O pins, which offer digital and analog input and digital output capabilities; two relays, which can be used to activate bells, door strikes, motors, blinds and lights; and two expansion ports, which offer connectivity to Dallas I-Wire® devices, such as temperature sensors, and Barix extension modules. Two integrated bus connectors and the serial interfaces allow for the connection of a wide range of additional I/O modules and smart sensors from various manufacturers. The serial ports can also be used independently for tunneling applications.



Common Applications

- Monitoring, controlling, and interfacing devices to IP-based networks or central management systems in commercial, industrial, and home applications
- Access control, machine data collection, and environmental monitoring
- Measuring voltages
- Monitoring contact closures
- Temperature sensor

The Barionet comes with software featuring fully documented interfaces, which support a variety of different communication methods. UDP and TCP, as well as higher-level protocols such as CGI and XML. SNMP support with a private MIB is available on request.

The unit is programmable for stand-alone or connected operation using the Barix BCL environment. The language syntax is very similar to the wellknown Basic language, so most programmers can instantly craft interface solutions. The built-in web server can serve user specific pages, which can contain data generated by the control program or the various inputs.

For further information, distribution partners, detailed technical specifications and information about other versions and products please visit www.barix.com