

# BARIX

## Barionet 50

Two serial ports, 4 digital inputs,  
4 relay outputs and Dallas 1-wire support.



The Barionet 50 is a low cost, flexible and multiprotocol capable I/O device server which bridges the physical world of sensors and activators with IP Automation and IT management systems.

Speaking both SNMP and Modbus/TCP as well as universal ASCII protocols, the Barionet devices are easily integrated into monitoring and management systems.

The Barionet50 is a programmable network controller, via BCL (Barix Control Language) programming the functionality of the device can be expanded/customized. The development kit is available for free, downloadable with the firmware.

### Applications

- Environmental monitoring, logging and alarming
- Access Control/Door control
- Temperature monitoring, logging and HVAC control
- Contact closure monitoring
- PV power management
- Automation and remote control via network

### Features

- Relay Output (4)
- Contact Closure Input (4)
- RS-232 Serial Port (1)
- RS-485 Serial Port (1)
- Dallas 1-wire interface (1)
- Supply Voltage (9-30VDC)
- Control interfaces: HTTP/CGI, TCP, UDP, SNMP, Modbus/TCP
- IO capabilities extendable via Barionet extension units

# Technical Specifications

## I/O Interfaces

- On detachable screw terminal blocks:
- 4 relay outputs (30 VDC, 0.5 A)
- 4 digital inputs (dry contacts)
- Dallas 1-Wire® interface, with support for 50\*DS18B20 sensors, free programable for other 1-wire devices

## Serial Interfaces

- RS-232 (DSub-9 male, 5-wire RXD, TXD, RTS, CTS, GND)
- RS-485 on detachable screw terminal block as well as on 4 pin extension connector, both with serial speeds from 300 bps to 230 kbps (asynchronous)

## Misc

- 8 LED status indicators
- Extension connector (4 pin: power and RS-485)

## Network Interface

- RJ45 10/100 Mbit Ethernet (Autodetect) with 2 status LEDs

## Supported protocols

- TCP/IP, UDP, ICMP, IGMP, AutoIP, IPzator™, DHCP, SNMP, SYSLOG, CGI, HTTP web server for control, status and configuration
- API/control interfaces: Modbus/TCP, SNMP, CGI, UDP/TCP based ASCII protocol

## Power input

- 9..30 VDC, 4 Watt max.

## Case

- high quality plastic, 135 g, DIN-rail mount.
- Dimensions: 105 mm x 85 mm x 32 mm (4.13" x 3.34" x 1.25")

## MTBF

- Min. 800 000h acc. to MIL217F at 25°C ambient temperature

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## Environmental

### Operating Environment

0 to +50°C / 32 to 122°F

### Storage Conditions

0 to +70°C / 32 to 158°F

## Certifications

CE, RoHS, others in examination

## Ordering Information

2008.9091 Barionet 50



For commercial related questions (distributors contacts, price list, business opportunities) please contact: [sales@barix.com](mailto:sales@barix.com)



For technical inquiries (problem reports, request for documentation, etc.) please contact: [support@barix.com](mailto:support@barix.com)

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