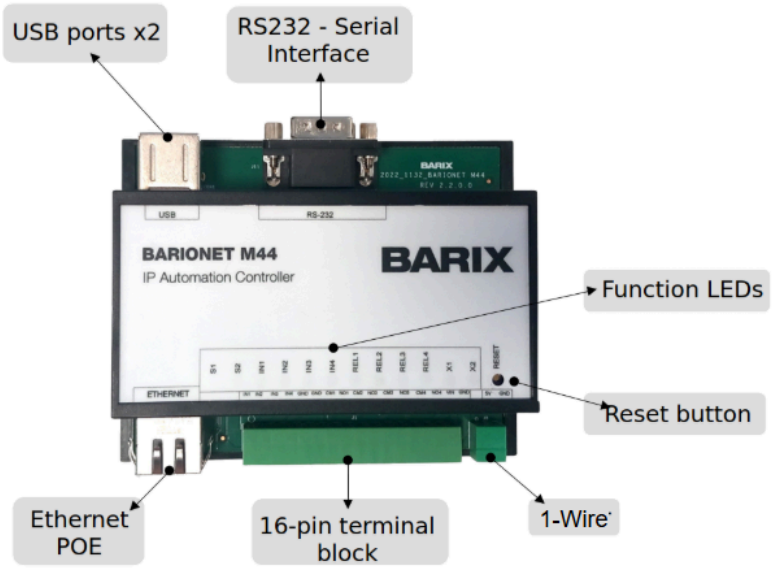
BARIX

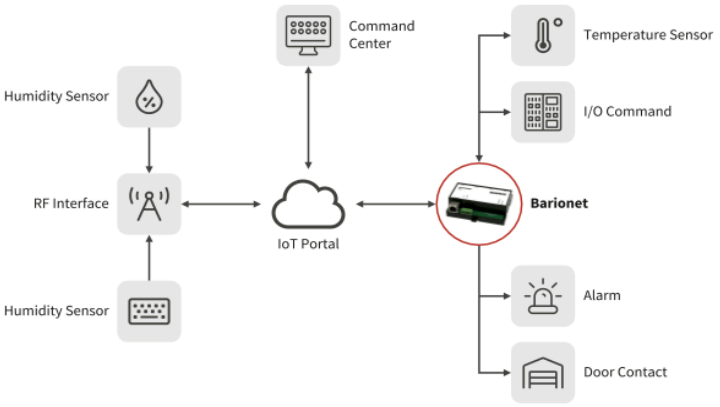
Barionet M44

Universal, programmable Linux I/O Device Server.



Optional I/O extension unit UX8

UX8 adds 8 inputs and 8 relay



Barionet M44 is a fully programmable I/O device server of Barix, based on Yocto Linux and can be programmed with Python, Lua. The device features most common IO interfaces such as USB, digital and analog Inputs, Relays and 1-Wire for temperature sensors. Supporting multiple communication protocols, the Barionet M44 can be used in different applications such as mass emergency notification, automation, building control, public transport and many more. Barix Products are developed and manufactured in Europe to the highest standards.

Applications

- Automation engineering in buildings, public transport and network infra-structures
- Machine control
- Access control and security driving horns or lights
- Environmental monitoring at power stations, sluices, or in agriculture
- Contact closure monitoring
- HVAC steering
- PV power management

Features

- Embedded Linux Yocto and Barix FLEXA
- Programmable in C++, Lua or Python
- I/O address compatible with older Barionets
- 10/100 Ethernet port
- 4 Relay Outputs
- 4 Analog/Digital Inputs
- 1-Wire
- USB Host Interface
- RS232 interface
- PoE or Supply Voltage 9-30 VDC

Technical Specifications

Operation System

- Linux Yocto / Barix FLEXA

Network Interfaces

- 1 x Ethernet (RJ45) 10/100 interface with IEEE802.3af POE
- IPv4, IPv6 capable
- 10/100 fdx/hdx, auto negotiation
- TCP/IP, RTP, UDP, ICMP, DHCP, ~~CGI~~, HTTP(S), SNMP, Modbus

I/O Interface

- 4 x Relay Outputs (30VDC, 1A) Normally Open
- 4 x analog/digital inputs (0 -15V) with configurable pull-ups
- 1-Wire temperature sensor interface

USB Interface

- 2 x USB Host (Type A) Interface

RS232 Interface

- Baud rates: 9600 .. 115200

CPUs / Memory

- Barix IPAM40x processor module
- Quad-Core ARM Cortex™ -A7
- 256MB DDR3 RAM

User Interface

- Web interface for control / configuration
- 12 x Multicolor LED Status indicators
- Reset & Factory Defaults Button

Power Requirements

- 9-30VDC 12W (max)
  (without attached USB devices) or
- IEEE 802.3af PoE

Measurement

- 4.05” x 3.35” x 1.22” / 105mm x 85mm x 31mm

Weight

- 160g

Warranty

- Two years

Package Content

- Barionet M44 device
- 16-pin female terminal block
- 2-pin female terminal block
- Rail spring adaptor
- Sticker with Mac Address and password info

Environmental

Operating Environment
0 to +50°C / 32 to 122°F
0 - 70% relative humidity, non-condensing

Storage Conditions
-20 to +70°C / -4 to 158°F
0 - 70% relative humidity, non-condensing

Certifications

CE, RoHS, FCC

Ordering Information

2022.9371P BARIONET M44

Optional I/O Extension module
(max 2 units per Barionet M44)
2023.9425P Barionet UX8

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

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

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