BARIX

Barionet 1100

Universal, programmable I/O Device Server.

Barionet 1100 is the newest fully programmable I/O device server of Barix, based on Linux/Lede/OpenWRT. The device features a wide range of interfaces such as two USB, WiFi, serial ports, analog and digital I/Os, Relays, Dallas 1-wire support and optional CAN and LoRa Interface. It is IPv4 or IPv6 capable. Supporting SNMP, Modbus and universal ASCII protocols, the Barionet device can be easily integrated into 3rd party management systems. Barix Products are developed in Switzerland and manufactured in the EU.

Applications

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

Features

- Embedded Linux / Lede / OpenWRT
- Programmable in C++, Lua or Python
- IPv4 / IPv6 stack
- One 10/100 Ethernet port
- Wi-Fi 802.11 b/g/n, 2.4Ghz
- 2 Relay outputs
- 4 Digital Outputs
- 4 Digital Inputs
- 4 Universal Inputs (analog or digital)
- RS232 Interface
- RS485 Interface
- 2 USB Host Interfaces
- Interface for temperature sensor – Dallas
- 1-wire® 18DS20
- Optional CAN Interface
- Optional LoRa Interface
- Barionet DIN-Rail Case
- Supply Voltage 9-30 VDC

Technical Specifications

Operation System

- Linux / OpenWRT

Network / WiFi Interfaces

- 1 x Ethernet (RJ45) Interface
- IPv4, IPv6 capable
- 10/100 fdx/hdx, auto negotiation
- WiFi 802.11 b/g/n, 2.4 GHz
- TCP/IP, RTP, UDP, ICMP, DHCP, CGI, HTTP, SNMP

I/O Interface

- 2 x Relay Outputs (30VDC, 5A)
- 4 x Digital Outputs (open-collector, 24VDC, 0.3A)
- 4 x Digital Inputs (0-15VDC) with conf. pullups
- 4 x Universal Inputs (Analog 0-15VDC 12bit or Digital 0-15VDC) with configurable pullups

Serial Interface

- 1 x RS-232 (DSub-9 male) Interface
- 1 x RS-485 (Screw Terminal) Interface
- 600-115'200 baud rate, 7-8 bit, O/E/N Parity

UBS Interface

- 2 x USB Host (Type A) Interface

Miscellaneous Interfaces

- Universal Dallas 1-Wire® Interface for external temperature sensors 18DS20 and other 1-Wire® equipment

CPUs / Memory

- MediaTek MT7620N, Qino Lite Module
- 64MB SDRAM
- 16MB Flash
- RTC with Gold Cap Buffer

User Interface

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

Power Requirements

- Single 9-30V DC supply voltage, 2.5 Watt

MTBF

- > 950'000h

Measurement

- 4.05" x 3.35" x 1.22" / 103mm x 85mm x 31mm

Weight

- 180g

Warranty

- Two years

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

2018.9257P BARIONET 400 (incl. Syn-Apps)

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

---

Barix AG Limmatstrasse 21, 8005 Zürich, Switzerland
Phone: +41 434 33 22 11
www.barix.com

Direct Link