

BARIX

Barionet Overview

Universal, programmable I/O Device and IoT Sensor Servers.



BARIONET 1000



BARIONET 200



BARIONET 400



BARIONET 1100

The Barionet Products are fully programmable I/O device and IoT sensor server of Barix, based on Linux/Lede/OpenWRT. The devices feature a wide range of interfaces such as USB, WiFi, serial ports, analog and digital I/Os, Relays, Dallas 1-wire support and optional CAN Interface. They are IPv4 or IPv6 capable. Supporting SNMP, Modbus and universal ASCII protocols, the Barionet devices 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
- 10/100 Ethernet ports
- Wi-Fi 802.11 b/g/n, 2.4Ghz
- Relay outputs
- Digital Outputs
- Digital Inputs
- Universal Inputs (analog or digital)
- RS232 Interfaces
- RS485 Interfaces
- USB Interfaces
- Interfaces for temperature sensor – Dallas
- 1-wire® 18DS20
- Real Time Clock

BARIONET 1000**BARIONET 200****BARIONET 400****BARIONET 1100**

Operating System				
Operating System	Linux / Lede / OpenWRT	Linux / Lede / OpenWRT	Linux / Lede / OpenWRT	Linux / Lede / OpenWRT
CPUs / Memory				
CPU	MediaTek MT7620A, Qino Module	MediaTek MT7620N Qino Lite Module	MediaTek MT7620N	MediaTek MT7620A, Qino Module
RAM	64MB SDRAM	64MB SDRAM	64MB SDRAM	64MB SDRAM
Flash	16MB Flash	16MB Flash	16MB Flash	16MB Flash
Real Time Clock	---	RTC with Gold Cap Buffer as OEM Option	RTC with Gold Cap Buffer as OEM Option	RTC with Gold Cap Buffer
User Interface				
Web	Web interface for control / configuration	Web interface for control / configuration	Web interface for control / configuration	Web interface for control / configuration
LEDs	10 x single Color LED Status indicators	2 x single Color LED Status indicators	10 x Multicolor LED Status indicators	10 x Multicolor LED Status indicators
Buttons	Factory Defaults Jumper (inside case)	Reset & Factory Defaults Button	Reset & Factory Defaults Button	Reset & Factory Defaults Button
Network / WiFi Interfaces				
Ethernet	1 x Ethernet (RJ45) Interface 10/100 fdx/hdx, auto negotiation	1 x Ethernet (RJ45) Interface 10/100 fdx/hdx, auto negotiation	1 x Ethernet (RJ45) Interface 10/100 fdx/hdx, auto negotiation	1 x Ethernet (RJ45) Interface 10/100 fdx/hdx, auto negotiation
WiFi	WiFi 802.11 b/g/n, 2.4 GHz	WiFi 802.11 b/g/n, 2.4 GHz	---	WiFi 802.11 b/g/n, 2.4 GHz
Protocols	IPv4, IPv6 capable, TCP/IP, UDP, ICMP, DHCP, CGI, HTTP, SNMP	IPv4, IPv6 capable, TCP/IP, UDP, ICMP, DHCP, CGI, HTTP, SNMP	IPv4, IPv6 capable, TCP/IP, UDP, ICMP, DHCP, CGI, HTTP, SNMP	IPv4, IPv6 capable, TCP/IP, UDP, ICMP, DHCP, CGI, HTTP, SNMP
I/O Interfaces				
Relays	2 x Relay Outputs (30VDC, 5A)	---	4 x Relay Outputs (30VDC, 0.5A)	2 x Relay Outputs (30VDC, 5A)
Digital Outputs	4 x Digital Outputs (open-collector, 24VDC, 0.3A)	---	---	4 x Digital Outputs (open-collector, 24VDC, 0.3A)
Digital Inputs	4 x Digital Inputs (0-15VDC) with conf. pullups	1 x Digital Input (0-15VDC)	4 x Digital Inputs (0-15VDC)	4 x Digital Inputs (0-15VDC) with conf. pullups
Universal Inputs	4 x Universal Inputs (Analog 0-15VDC 12bit or Digital 0-15VDC) with configurable pullups	---	---	4 x Universal Inputs (Analog 0-15VDC 12bit or Digital 0-15VDC) with configurable pullups
Serial Interfaces				
RS-232	1 x RS-232 (DSub-9 male) Interface, 600-115*200 baud rate, 7-8 bit, Odd/Even/None Parity	---	---	1 x RS-232 (DSub-9 male) Interface, 600-115*200 baud rate, 7-8 bit, Odd/Even/None Parity
RS-485	---	---	---	1 x RS-485 (Screw Terminal) Interface, 600-115*200 baud rate, 7-8 bit, Odd/Even/None Parity
CAN	---	---	---	Optional CAN Interface
USB Interface				
USB Interface	2 x USB Host (Type A) Interface	4 x USB Host (Type A) Interface	1 x USB Host (Type A) Interface	2 x USB Host (Type A) Interface

BARIONET 1000**BARIONET 200****BARIONET 400****BARIONET 1100**

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

Environmental				
Operating Environment	0°C to +50° / 32 to 122°F environmental 0 - 70% relative humidity, non-condensing	0°C to +50° / 32 to 122°F environmental 0 - 70% relative humidity, non-condensing	0°C to +60° / -40 to 140°F environmental 0 - 70% relative humidity, non-condensing	-40°C to +60° / -40 to 140°F environmental 0 - 70% relative humidity, non-condensing
Storage Conditions	0 to +70°C / 32 to 158°F 0 - 70% relative humidity, non-condensing	0 to +70°C / 32 to 158°F 0 - 70% relative humidity, non-condensing	0 to +70°C / 32 to 158°F 0 - 70% relative humidity, non-condensing	0 to +70°C / 32 to 158°F 0 - 70% relative humidity, non-condensing

Miscellaneous				
Power Requirements	Single 9-30V DC supply voltage, 2.5 Watt	Single 9-30V DC supply voltage, 2.5 Watt	Single 9-30V DC supply voltage, 2.5 Watt	Single 9-30V DC supply voltage, 2.5 Watt
Power over Ethernet	---	IEEE 802.3af PoE	IEEE 802.3af PoE	---
Measurements	4.05" x 3.35" x 1.22" 103mm x 85mm x 31mm	4.05" x 3.35" x 1.22" 103mm x 85mm x 31mm	4.05" x 3.35" x 1.22" 103mm x 85mm x 31mm	4.05" x 3.35" x 1.22" 103mm x 85mm x 31mm
Weight	180g	160g	160g	180g
Warranty	Two years	Two years	Two years	Two years
OEM Options		Real Time Clock	Real Time Clock	CAN Interface
Certifications	RoHS, FCC (A&B), CE (A&B), RED	RoHS, FCC (A&B), CE (A&B), RED	RoHS, FCC (A&B), CE (A&B), RED	RoHS, FCC (A&B), CE (A&B), RED
Ordering Information	2016.9187P Barionet 1000 NoPSU	2018_9253P_BARIONET 200 NO PSU	2018_9257P_BARIONET 500 NO PSU	2017_9195P_BARIONET 1100 NO PSU



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