Industrial Routers LAN ROUTER

XR5i v2F Series



AD\ANTECH



PRODUCT FEATURES

- Modular design to fit application requirements
- Provided secure connection between two networks
- Provides USB, Serial and I/O connectivity
- SNMP protocol for remote management
- VPN support

The XR5i v2F industrial router secures connections between two local networks (LAN) via two Ethernet interfaces 10/100. The XR5i v2F can also convert serial RS232, RS485, M-BUS, I/O to IP local area network (LAN Ethernet 10/100). WiFi models are available.

The XR5i v2F Industrial router will also connect two devices with different serial interfaces (RS232, RS485, M-Bus, I/O, etc.) to the local network. In this configuration, the communication device has an Ethernet 10/100 port and two serial interfaces which user definable. A third option uses combination of two previous versions, when the industrial XR5i v2F router equipped with two Ethernet interfaces 10/100 and one optional serial interface. Standard on the XR5i v2F Industrial Router is one Ethernet 10/100 port, one USB A (host) port, I/O port and two optional interfaces. Users can select a second Ethernet port, 10/100, serial interface RS232/RS485/RS422/MBUS or other Inputs/Outputs (I/O). Industrial XR5i v2F router can be ordered with either a plastic or metal housing.

Configuration is password protected, via web interface. The router supports creation of VPN tunnels using IPsec, OpenVPN and L2TP to ensure safe communication. Web interface provides detail statistics about router activities.

SELECTED APPLICATIONS

Transportation and security
IT and communication
Self-service terminals
Energy and power industry
Metrology, alarm and warning systems

ORDERING INFORMATION

Note: Check with your local distributor for availability and options. Contact Advantech B+B SmartWorx distributors.

Europe, Middle East, Africa, Asia, South America, Latin America.

BB-XR2F00XXXX

ХХ	XX	
	Accessories 0 1 2 3 4	No Accessories Accessories with EU power supply Accessories with UK power supply Accessories with Australia power supply Accessories with US power supply
	Enclosure 1 2	Plastic enclosure Metal enclosure
	PORT2 (Full version only) 0 1 2 3 4 5 6 7	No expansion port ETH RS232 RS485 RS422 MBUS CNT (4× BI, 2×, 1×B0) - I/O port WiFi WMBUS (Wireless M-BUS)
	PORT1 0 1 2 3 4 5 6	No expansion port ETH RS232 RS485 RS422 MBUS CNT (4× BI, 2×, 1×B0) - I/O port Switch

R-SEENET™

Router Management Software consisting of two parts:

R-SeeNet Server application can be programmed to automatically send SNMP queries (Simple Network Management Protocol) to each router defined in the network. The application retrieves status information from the routers and records it in the SQL database.

R-SeeNet PHP is a web-based application that accesses the SQL database and provides the network administrator detailed information on individual routers and network health.

SMARTWORX HUB™

SmartWorx HUB takes management of your devices to new levels of flexibility and efficiency. Giving you a complete view of your installed device population, SmartWorx Hub delivers invaluable configuration, diagnostic and management facilities directly to your desktop, wherever you are.

Manage a single device or your entire device population at the same time. Whether you need to modify configuration parameters, download or upgrade installed firmware and applications or view detailed information regarding network statistics, you can do it all from any location.

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I/O PORT Binary input



SPECIFICATIONS

FIXED INTERFACES	
1× Ethernet	10/100 Mbits, independent or bridged
1× I/0	Binary input/output
1× USB	USB 2.0 Host, Type A
OPTIONAL INTERFACES	i e
1× PORT 1	Ethernet (10/100Mbps), RS232, RS422/485, M-Bus I/O Input/Output, Ethernet Switch (with PORT 2)
1× PORT 2	RS232, RS422/485, M-Bus, WM-Bus, SDH, WiFi Ethernet Switch (with PORT 1)
POWER	
Source	9 - 36 VDC
Consumption	ldle - 1.6 W WiFi Com. to 1.9 W Full Com. to 2.5 W
MECHANICAL	
Dimension Plastic version	51 x 87 x 116mm
Dimension Metallic version	42 x 87 x 113mm
Protection	IP30
Weight Plastic version	150 g
Weight Metallic version	280 g
ENVIRONMENTAL	
Operating Temperature	-40 to +75°C
Storage Temperature	-40° to +85°C
Humidity	Operating - 0 to 95% relative humidity non condensing Storage - 0 to 95% relative humidity non condensing

Binary output	100 mA/ max. 30 V
CPU & MEMORY	
CPU	32b ARM microprocessor, 0.25 DMIPS per MHz
Flash memory	16 MB DDR SDRAM
RAM	64 MB
M-RAM	128 kB

Reed contact with trigger level 1.3 up to 1.4 V

SOFTWARE FEATURES
Linux based, possibility to program your own application
NTP client, NTP Server – time synchronization
M-RAM memory inside – router statistic's saving into memory
NETWORKING
DHCP – automatic IP addressing in LAN network
NAT/PAT – IP address and ports translation between inside/outside network
VRRP – virtual backup router function
DynDNS client – access to the router with a dynamic IP address
Dial-in – the ability to communicate over dial CSD call
PPPoE Bridge – PPP frames encapsulation inside ETH frames
VPN TUNNELING
IPsec, OpenVPN, L2TP – secure encrypted tunnels
CONFIGURATION AND DIAGNOSTIC
HTTP server – configuration via web server
Telnet – configuration and access to the file system
SNMP – router diagnostics, communication with I/O and M-Bus
Remote router group configuration change, switching among configuration profiles
SSH – encrypted configuration and access to the file system

	ETSI EN 301 489-1 V2.1.1, ETSI EN 301 489-17 V3.1.1, ETSI EN 301 489-3 V2.1.1				
Satety	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 + AC:2011				
WIFI *optional					
Antenna connector	R-SMA – 50 Ohms				
Supported WiFi band	2.4 GHz				
Standards	802.11b, 802.11g, 802.11n				
0.4.011=	1 0 0 4 5 0 7 0 0 10 11 10 10				

STANDARDS/REGULATION

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Standards	802.11b, 802.11g, 802.11n				
2.4 GHz supported channels	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13				
RX Sensitivity	11b, 11 Mbps: typ85 dBm 11g, 54 Mbps: typ70 dBm (HT20) 11n, MSC7: typ66 dBm (HT40) 11n, MSC7: typ62 dBm				
TX Output Power	11b, 11 Mbps: min. 18, typ. 19, max. 20 dBm 11g, 54 Mbps: min. 14.5, typ. 16, max. 17.5 dBm 802.11n (HT20): min. 13.5, typ. 15, max. 16.5 dBm				

Access point, station

802.11n (HT40): min. 13.5, typ. 15, max. 16.5 dBm

ACCESSORIES			INCLUDED IN SET PACKAGE	SOLD SEPARATELY
ORDER CODE	DESCRIPTION			
BB-SBD40	Metal DIN holder for Metal versions of routers v2	~	~	~
BB-CPD2-G	Plastic DIN holder for Plastic versions of routers v2	~	~	~
BB-AW-A24G-M5SRP	Antenna WiFi stick 5dB, SMA-RP connector		~	~
BB-KD-ETH	Ethernet cross cable 1.5m		2×	~
BB-CON-WR2	2-pin Terminal block for Power Supply	~		~
BB-CON-WR3	3-pin terminal block for I/O	~	~	~
BB-RPS-v2-WR2-EU	Power supply with WR connector (2 pins) - 12V/1A - EU plug		~	~
BB-RPS-v2-WR2-US	Power supply with WR connector (2 pins) - 12V/1A - US plug		~	~
BB-RPS-v2-WR2-UK	Power supply with WR connector (2 pins) - 12V/1A - UK plug		~	•
BB-RPS-v2-WR2-AUS	Power supply with WR connector (2 pins) - 12V/1A - AUS plug		~	✓
BB-KN-WR2-3	Power supply cable 2-wire, 3m		~	~
Quick Start Guide		✓	~	

Type of device

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

B+B SmartWorx:

XR2F00001	1 XR2F001010	XR2F001510	XR2F001711	XR2F005821	XR2F009011	XR2F002710	XR2F000021
XR2F000711	XR2F000020	XR2F001721	XR2F001311	XR2F001321	XR2F001710	XR2F000721	XR2F002011
XR2F002021	XR2F002321	XR2F001120	XR2F001121	XR2F001211	XR2F006721	XR2F000010	XR2F001011
XR2F002711	XR2F001111	XR2F001720	XR2F003011	XR2F001021	XR2F003710		