Industrial Routers LAN ROUTER

XR5i v2F Series



Powered by





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

X	XXX		
		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
		~	No expansion port ETH RS232 RS485 RS422 MBUS CNT (4× BI, 2×, 1×B0) - I/0 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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Binary output



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							
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	Idle - 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						
32B ARM MICROPROCESSOR							
Memory	512 Mb DDR SDRAM 128 Mb Flash 1 Mb Mram						
I/O PORT							
Binary input	Reed contact with trigger level 1.3 up to 1.4 V						

100 mA/ max. 30 V

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	
STANDARDS/REGULATION	

SOFTWARE FEATURES

WIFI *optional	
Antenna connector	R-SMA – 50 Ohms
Supported WiFi band	2.4 GHz
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 Mpps: 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 802.11n (HT40): min. 13.5, typ. 15, max. 16.5 dBm
Type of device	Access point, station

EN 301 489-3 V2.1.1

+ AC:2011

ETSI EN 301 489-1 V2.1.1, ETSI EN 301 489-17 V3.1.1, ETSI

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

ACCESSORI	Variant of router without accessories	Accessories included in set	Accessories 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 IO		~	~
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		~	~	~

EMC

Safety

Mouser Electronics

Authorized Distributor

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

B+B SmartWorx:
BB-KN-WR2-3