UR5i v2 Series



Powered by

AD\ANTECH



3G UMTS/HSPA routers, UR5i v2 series, are used to wirelessly connect various equipment and devices via Ethernet 10/100 to the Internet or intranet. High data transfer speed of up to 14.4 Mbit/s (download) and upload speed up to 5.76 Mbit/s, make it an ideal wireless solution for traffic and security camera systems, individual computers, LAN networks, automatic teller machines (ATM) and other self-service terminals, etc.

Key features

This exceptionally fast 3G UR5i v2 wireless router is equipped with one Ethernet 10/100, one USB Host port, one binary Input/Output (I/O) port and one SIM card. To save and backup communication data, a version with 2 x SIM cards is available. A wide range of user-defined interface options further expands optional Port1 and Port2. (EX: Ethernet port 10/100, serial interface ports RS232/RS485/RS422/M-Bus/WiFi or (I/O - CNT). Port2 may be equipped with serial interfaces RS232/RS485/RS422/M-Bus or (I/O - CNT). Routers are available in either plastic or metal casings. FULL version of the router is equipped with GPS.

Configuration is done via protected password web interface. The 3G UMTS/HSPA+ router supports VPN tunnel creation using IPsec, OpenVPN and L2TP to ensure safe communication. Web interface provides statistics about router activities, signal strength, detailed log, etc. Cellular router supports functions: DHCP, NAT, NAT-T, DynDNS, NTP, VRRP, control by SMS and many other functions.

Other diagnostic functions ensuring continuous communication include automatic inspection of PPP connection offering an automatic restart feature in case of connection losses, and hardware watchdog which monitors the status of the router. With the help of a start up script window you may insert Linux scripts for various actions and, for some applications the option to create several different configurations for one 3G wireless router, profiles (maximum of 4), and the option to switch between them (for example via SMS, binary input status, etc.). Cellular wireless routers can automatically upgrade configuration and firmware from server. This allows mass reconfiguration of multiple routers at one time.

SELECTED APPLICATIONS

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

PRODUCT FEATURES

- Designed for M2M applications
- WiFi, M-BUS and Modbus TCP / Modbus RTU
- Modular design to fit application requirements
- Single or dual SIM cards for redundant backhaul
- Up to 5.7 Mbps upload to 14.4 Mbps download
- LINUX platform & advanced networking functions
- Advanced security features

ORDERING INFORMATION

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

BB-UR2X61XXXX

LAUIA	~~~~	
	Accessories 0 1 (set) 2 (set)	No Accessories (DIN holder included) Accessories with EU power supply Accessories with UK power supply
	3 (set) 4 (set)	Accessories with Australia power supply Accessories with US power supply
	. (000)	
	Enclosure	
	1	Plastic enclosure
	2	Metal enclosure
	PORT2	
	(Full version only)
	0	No expansion port
	1	ETH
	2	RS232
	3	RS485
	4	RS422
	5	M-BUS
	6	CNT ($4 \times$ BI, $2 \times$, $1 \times$ BO) - I/O port
	7	WiFi
	8	WMBUS (Wireless M-BUS)
	PORT1	
	0	No expansion port
	1	ETH
	2	RS232
	3	RS485
	4	RS422
	5	M-BUS
	6	CNT ($4 \times$ BI, $2 \times$, $1 \times$ BO) - I/O port
	9	Switch
	Router version	
	В	Basic
	F	Full

Please note: Isn't possible to have in the router all combinations of the ports. Please check your chosen variant with your local distributor.

UR5i v2 Series



SPECIFICATI							
FIXED INTERFACES - B/	ASIC VERSION						
1× Ethernet	10/100 Mbits, independent or bridged						
$1 \times SIM$	SIM Card						
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)						
ANTENNA CONNECTORS							
2x SMA – 50 Ohm							
FIXED INTERFACES - FULL VERSION							
1× Ethernet	10/100 Mbits, independent or bridged						
$2 \times SIM$	SIM Card						
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, WMBUS, WiFi Ethernet Switch (with PORT 1)						
1× Optional	2nd SIM card holder ("F" router versions)						
ANTENNA CONNECTORS	5						
3× SMA – 50 0hm							
POWER							
Source	9 - 36 VDC						
Consumption	Idle - 2.6 W GPRS - to 3.5 W (GPRS transmission) UMTS - to 5.5 W (LTE transmission)						
MECHANICAL							
Dimension Plastic Version	51 x 87 x 116mm						
Dimension Metallic Version	42 x 87 x 113mm						
Protection	IP30						
Weight Plastic Version	150g						
Weight Metallic Version	280g						
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						
WIFI *optional ("F" route	r versions)						
Antenna connector	R-SMA – 50 Ohms						
Supported WiFi band	2.4 GHz						
Standards	802.11b, 802.11g, 802.11n						
2.4 GHz supported channels	5 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 802.11n (HT40): min. 13.5, typ. 15, max. 16.5 dBm						
Tuno of douioo	Assess a stat station						

	IONS *GPS is not available when the router is equipped with the LTE module 450 MHz! 50 Ohms – active
Antenna Protocols	NMEA 0183 v3.0
Frequency	1575.42MHz
Пециенсу	Tracking: -161dBm
Sensitivity	Acquisition (Assisted): -158dBm Acquisition (Standalone): -145dBm
Acquisition time	Hot start: 1 s Warm start: 29 s Cold start: 32 s
Accuracy	Horizontal: < 2m (50 %); < 5m (90 %) Altitude: < 4m (50 %); < 8m (90 %) Velocity: < 0.2 m/s
CPU & MEMORY	
CPU	32b ARM microprocessor, 0.25 DMIPS per MHz
Flash memory	16 MB DDR SDRAM
RAM	64 MB
M-RAM	128 kB
I/O PORT (CNT)	
Binary input	Reed contact with trigger level 1.3 up to 1.4 V
Binary output	100 mA/ max. 30 V
PARAMETERS - H	HSPA+ module
HSPA+	Bit rate 14,4 Mbps (DL) / 5,76 Mbps (UL) 3GPP rel. 6/7 standard Data compress 3GPP
UMTS	Bit rate 384 kbps (DL) / 384 kbps (UL) 3GPP rel. 4 standard
GPRS/EDGE	EDGE bit rate 237 kbps (DL) / 237 kbps (UL) GPRS bit rate 85,6 kbps (DL) / 85,6 kbps (UL) Multislot class 12, CS 1 to 4, 3GPP rel. 99/4 standard
	GSM/GPRS/EDGE: Quad band, 850/900/1800/1900 MHz UMTS/HSDPA/HSUPA/HSPA+: Five band,

STANDAIDDS/ILCOLATION					
Telecom and Emission	ETSI EN 301 511 V12.5.1, ETSI EN 300 440 V2.1.1, ETSI EN 301 908-1 V11.1.1, ETSI EN 301 908-2 V11.1.1, ETSI EN 300 328 V2.1.1, ETSI EN 300 220-2 V3.1.1				
EMC	ETSI EN 301 489-1 V2.1.1, ETSI EN 301 489-3 V2.1.1, Draft ETSI EN 301 489-52 V1.1.0, ETSI EN 301 489-17 V3.1.1				
Safety	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 + AC:2011, EN 62311:2008				
E-Mark – EMC for devices in transportation	E-Mark homologation number: 10R – 04 7054				

Powered by

Access point, station

Type of device

B+BSMARTWORX orders@advantech-bb.com / Corporate Headquarters: 707 Dayton Road, PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / Corporate Headquarters: 707 Dayton Road, PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-433-5104 support@advantech-bb.com / PO Box 1040 Ottawa, IL 61350 USA 815-4

UR5i v2 Series



SOFTWARE FEATURES
Linux based, possibility to program your own application
NTP client, NTP Server – time synchronization
SMS communication – AT commands on RS232, Ethernet and I/O
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
DMZ - via iptables
VPN TUNNELING
VPN TUNNELING IPsec, OpenVPN, L2TP – secure encrypted tunnels
IPsec, OpenVPN, L2TP – secure encrypted tunnels
IPsec, OpenVPN, L2TP – secure encrypted tunnels CONFIGURATION AND DIAGNOSTIC
IPsec, OpenVPN, L2TP – secure encrypted tunnels CONFIGURATION AND DIAGNOSTIC HTTP server – configuration via web server
IPsec, OpenVPN, L2TP – secure encrypted tunnels CONFIGURATION AND DIAGNOSTIC HTTP server – configuration via web server Telnet – configuration and access to the file system
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
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 GPRS state signalization by LED
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 GPRS state signalization by LED On-line info on GSM signal status (level, cell, neighbors)
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 GPRS state signalization by LED On-line info on GSM signal status (level, cell, neighbors) SMS info – power on, GPRS connection or disconnection
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 GPRS state signalization by LED On-line info on GSM signal status (level, cell, neighbors) SMS info – power on, GPRS connection or disconnection SMS control – on/off GPRS connection, switch SIM, I/O etc.

BASIC VERSION FULL VERSION 1× SIM card holder, 1× optional port (PORT1) 2× SIM card holder, 2× optional port (PORT1,2) PLASTIC VERSION UR5i v2 6 METALLIC VERSION O Optional Optional Back up of primary SIM Optional Ethernet 10/100 RS232, RS485, MBUS, Wi-Fi, CNT, W-MBUS Ethernet 10/100, RS232, RS485, CNT, MBUS Ethernet 10/100 2 or 3 port switch 10/100

B+B SMARTWORX orders@advantech-bb.com support@advantech-bb.com

Powered by

UR5i v2 Series



ACCESSORIES		INCLUDED IN PACKAGE	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-TG.09.0113	Antenna GSM/UMTS stick 2dB - Penta-band, SMA-M connector		v	~
BB-AO-AUMTS-M3S	Antenna GSM/UMTS magnetic 3dB - Quad-band, 3m cable, SMA-M connector		~	~
BB-AO-AGSM-MG9S	Antenna GSM/UMTS magnetic 9dB - Quad-band, 3,5m cable, SMA-M connector			~
BB-AW-A24G-M5SRP	Antenna WiFi stick 5dB, SMA-RP connector		v	~
BB-AP-AGNSS-SMA	Antenna GPS/GLONASS, active (3V), magnetic, 33 - 34dB, 3m cable + SMA connector			~
BB-KD-ETH	Ethernet cross cable 1.5m		~	~
BB-CON-WR3	3-pin terminal block for I/O	~	v	~
BB-CON-WR2	2-pin Terminal block for Power Supply	~		~
BB-RPS-v2-WR2-EU	Power supply with WR connector (2 pins) - 12V/1A - EU plug		v	~
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		~	~
Quick Start Guide		~	~	



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.

B+BSMARTWORX orders@advantech-bb.com / Corporate Headquarters: 707 Dayton Road, P0 Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / Corporate Headquarters: 707 Dayton Road, P0 Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / Support@advantech-bb.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Routers category:

Click to view products by B+B SmartWorx manufacturer:

Other Similar products are found below :

LR54-AA401 WR44-L900-AE1-RF WR31-U92A-DE1-TB SR30500020-SWH SR30510120 SR30508010 SR30500410 UR2B612011 UR2L610011-SWH UR2L610710 BB-ERT311 BB-UR2B610011 BB-UR2B610021 SL30200110-XSWH SL30210110-SWH SL30210110-XSWH SR30010110-SWH SR30510420-SWH SR30518120-SWH XR2F000711 ASB-631R-DX06-OUS TX64-A121 X2E-Z1R-E1-W X2E-Z1R-W1-W X2E-Z1R-E1-A E224HPL2S 1010462 1010463 1010461 1010464 1153078 1153079 2702529 2702532 2702888 RUT24006E000 RUT950U022C0 RUTX09000000 RUTX1100000 FS-BENG-C FS-Router-BAC2 IX14-M301 IX14-M401 IX14-M601 RUT300000000 RUT360000000 RUT950V022C0 RUT950K02400 RUT950J02400 RUT950U025A0