

# Cellular Routers UMTS/HSPA+ & GPRS/EDGE

UR5i V2 Libratum

B+B SMARTWORX

Powered by

ADVANTECH



## PRODUCT FEATURES

- 2-port Ethernet switch
- 2 independent LAN
- Models with Wi-Fi: AP or client mode
- Dual-SIM fail over
- Antenna Rx Diversity
- Temperature up to +75°C

Balanced UR5iv2 Libratum a UMTS/HSPA+, non-modular wireless router features high speed data rates 14.4 Mbps, two Ethernet 10/100 ports and dual-SIM failover capability for mission critical applications. This router is particularly suited to the demands of the "Transaction Management" industry such as point-of-sale terminals, remote ATMs and vending terminals as well as a huge variety of intelligent remote monitoring and control applications in the Transport, Energy and Security sectors.

### Key Features

This exceptionally fast UMTS/HSPA+ UR5i v2 Libratum wireless router is equipped with two Ethernet 10/100 ports and two SIM cards. Two SIM cards backup communication in mobile operator network or networks and provide failover to each other. WiFi models are available.

Configuration is done via a web interface protected by password. The 3G UMTS/HSPA+ router supports creation of VPN tunnels using IPsec, OpenVPN and L2TP to assure safe communication. Web interface provides detail statistics about the 3G 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 for continuous communication include automatic inspection of PPP connection offering an automatic restart feature - in case of connection losses, or 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.

For some applications the key option is to create several different configurations for one UMTS/HSPA+ wireless router, the so-called profiles (maximum of 4), and the option to switch among them (for example via SMS, binary input status, etc.) is essential. Cellular wireless routers may automatically upgrade configuration and firmware from server. This allows mass reconfiguration of many routers in one time.

## ORDERING INFORMATION

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

### BB - UR2L610XXX

Accessories	
0	No Accessories (DIN holder included)
1 (set)	Accessories with EU power supply
2 (set)	Accessories with UK power supply
3 (set)	Accessories with Australia power supply
4 (set)	Accessories with US power supply
Enclosure	
1	Plastic enclosure
2	Metal enclosure
WiFi	
0	No WiFi
7	WiFi

## SELECTED APPLICATIONS

Transportation and security

IT and communication

Self-service terminals

Energy and power industry

Meteorology, alarm and warning systems

# Cellular Routers

## UMTS/HSPA+ & GPRS/EDGE

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### SPECIFICATIONS

INTERFACES		PARAMETERS - HSPA+ MODULE
2x Ethernet	10/100 Mbits, independent or bridged	HSPA+ Bit rate 14,4 Mbps (DL) / 5,76 Mbps (UL) 3GPP rel. 6/7 standard Data compress 3GPP
ANTENNA		UMTS Bit rate 384 kbps (DL) / 384 kbps (UL) 3GPP rel. 4 standard
2(3)x SMA connector, 50 Ohm		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. 9/4 standard
		Support channels GSM/GPRS/EDGE: Quad band, 850/900/1800/1900 MHz UMTS/HSDPA/HSUPA/HSPA+: Five band, 800/850/900/1900/2100 MHz
CPU & MEMORY		STANDARDS/REGULATIONS
CPU	32b ARM microprocessor, 0.25 DMIPS per MHz	ISO9001, CE, PCT, RoHS
Flash memory	16 MB DDR SDRAM	Telecom/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
RAM	64 MB	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
M-RAM	128 kB	Safety: EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 + AC:2011, EN 62311:2008
POWER		E-Mark – EMC for devices in transportation E-Mark homologation number: 10R – 04 7055
Source	9 - 36 VDC	RCM – EMC and RF according to Australian standards AS/NZS CISPR 32: 2015, CISPR 32: 2015, AS/NZS 4268: 2012 Amdt 1-2013
	2.3W reception	
Consumption	3.5W (GPRS transmission) 5.5W (UMTS/HSDPA transmission)	
MECHANICAL		SOFTWARE FEATURES
Dimension Plastic Version	51 x 87 x 116 mm (DIN 35 mm)	Linux based, possibility to program your own application
Dimension Metallic Version	42 x 87 x 113 mm (DIN 35 mm)	NTP client, NTP Server – time synchronization
Protection	IP30	SMS communication – AT commands on RS232, Ethernet and I/O
Weight Plastic Version	150g	M-RAM memory inside – router statistic's saving into memory
Weight Metallic Version	280g	
ENVIRONMENTAL		NETWORKING
Operating Temperature	-40° to +75°C	DHCP – automatic IP addressing in LAN network
Storage Temperature	-40° to +85°C	NAT/PAT – IP address and ports translation between inside/outside network
Humidity	0 to 95%, non-condensing	VRRP – virtual backup router function
WIFI *optional		DynDNS client – access to the router with a dynamic IP address
Antenna connector	R-SMA – 50 Ohms	Dial-in – the ability to communicate over dial CSD call
Supported WiFi band	2.4 GHz	PPPoE Bridge – PPP frames encapsulation inside ETH frames
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	
	11b, 11 Mbps: typ. -85 dBm	
RX Sensitivity	11g, 54 Mbps: typ. -70 dBm (HT20) 11n, MSC7: typ. -66 dBm (HT40) 11n, MSC7: typ. -62 dBm	
	11g, 54 Mbps: min. 14.5, typ. 16, max. 17.5 dBm	
TX Output Power	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	
VPN TUNNELING		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.
		Transferred data counting, one more APN as backup
		Remote router group configuration change, switching among configuration profiles
		SSH – encrypted configuration and access to the file system

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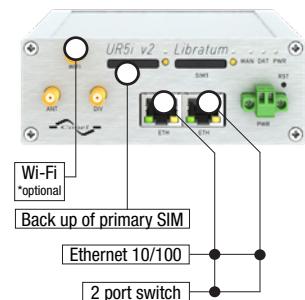


## ACCESSORIES

ORDER CODE	DESCRIPTION	INCLUDED IN PACKAGE	INCLUDED IN SET PACKAGE	SOLD SEPARATELY
BB-SBD40	Metal DIN holder for Metal versions of routers v2	✓	✓	✓
BB-CPD2-G	Plastic DIN holder	✓	✓	✓
BB-TG.09.0113	Antenna GSM/UMTS stick 2dB - Penta-band, SMA-M connector	✓	✓	✓
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	✓	✓	
BB-KD-ETH	Ethernet cross cable 1.5m	✓	✓	
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	✓	✓	
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		✓	✓	

### UR5i v2 LIBRATUM

2x SIM card holder  
2x LAN port, Wi-Fi optional



## 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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

#### Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помошь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помошь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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