Cellular Router - LTE

Spectre[™] RTLTE-300-x Series

B+B SMARTWORX

Powered by

AD\ANTECH



PRODUCT FEATURES

- LTE 4G cellular networking
- Up to 50 Mbps upload and 100 Mbps download speeds
 - Industrial design wide operating temperature
 - (RTLTE-3xx-W: -15 to +60°C; RTLTE-3xx: -30 to +60°C)
- GPS support (excludes WiFi models)
- Class 1/Division 2 Certified
- Wi-Fi 802.11 b/g/n access point

Built for plug&play simplicity with extensive remote management, deployment and customization options, the Spectre 4G cellular industrial router wirelessly connects Ethernet equipment and other devices to the Internet or intranet. It creates secure connections in locations where cable connections are impractical. Standard configuration includes a 10/100 Ethernet port, USB host port, binary input/output port and SIM card holder. It also has 2 auxiliary ports for connecting to other types of networks such as additional Ethernet switch ports, RS-232, RS-485/422 interfaces and additional digital/analog I/O. The function of each port is dependent on the specific router model. An additional option is integrated 802.11b/g/n Wi-Fi technology, allowing the router to serve as a Wi-Fi access Point (AP) or "Hotspot". Non-WiFi models support GPS.

The router supports VPN tunnel creation using IPsec, OpenVPN and L2TP to ensure safe communication. The web interface provides detailed statistics about router activities, signal strength, etc. The router supports DHCP, NAT, NAT-T, DynDNS, NTP, VRRP, control by SMS, and many other functions. The router provides diagnostic functions which include automatically monitoring the PPP connection, automatic restart in case of connection losses, and a hardware watchdog that monitors the router status. The router can automatically upgrade its configuration and firmware from your central server. This allows for mass reconfiguration of numerous routers at the same time. Additional management software, like R-SeeNet, for router monitoring are also supported.

Uniquely designed on an open source LINUX architecture, Spectre products are customizable through installation of software plug-in modules. Users can create their own with common LINUX commands and scripts, or add from B+B's existing library, including Modbus gateway, dynamic routing protocols and secure VPNs.

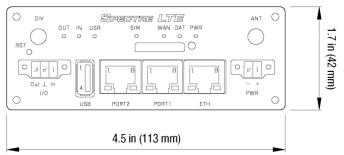
SERIES	LTE	EVDO/CDMA	UMTS/GSM
RTLTE-3xx-AT series	~		~
RTLTE-3xx-W-AT series	~		~
RTLTE-3xx-VZ series	~	~	
RTLTE-3xx-W-VZ series	~	~	

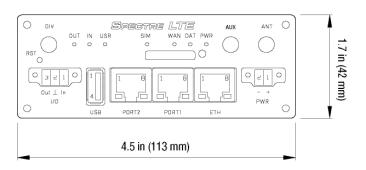
ORDERING INFORMATION

MODEL NUMBER	10/100	RS-232	RS-422/ RS-485	12 BIT I/0	802.11B/G/N WIFI	GPS
RTLTE-300 (-AT,-VZ)	1					~
RTLTE-302 (-AT,-VZ)	1	1				~
RTLTE-304 (-AT,-VZ)	1		1			~
RTLTE-322 (-AT,-VZ)	1	2				~
RTLTE-324 (-AT,-VZ)	1	1	1			~
RTLTE-330 (-AT,-VZ)	1			1		~
RTLTE-310 (-AT,-VZ)	2					~
RTLTE-311 (-AT,-VZ)	3					~
RTLTE-312 (-AT,-VZ)	2	1				~
RTLTE-314 (-AT,-VZ)	2		1			~
RTLTE-300-W (-AT,-VZ)	1				1	
RTLTE-310-W (-AT,-VZ)	2				1	
RTLTE-320-W (-AT,-VZ)	1	1			1	
RTLTE-330-W (-AT,-VZ)	1			1	1	
RTLTE-340-W (-AT,-VZ)	1		1		1	

USA, Canada: check with your local distributor for product availability and options. Certified for major North American carriers. Contact Advantech B+B SmartWorx for latest

MECHANICAL DIAGRAM - WI-FI MODELS





MECHANICAL DIAGRAM

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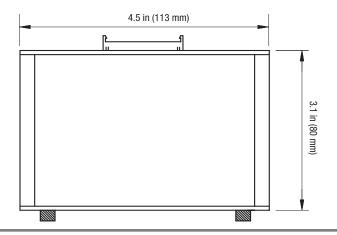


SPECIFICATIONS

SPECIFICA				
INTERFACES				
Standard				
Ethernet	10/100 Mbps			
USB	USB Type A host			
Binary I/O	1 input / 1 output			
SIM	SIM card			
Expansion Port Optio	Expansion Port Options			
	Ethernet 10/100 Mbps RS-232 RS-422/485			
	 I/O CNT: 4 Binary inputs (2 inputs may be configured as counters) 2 Analog inputs (4-20 mA) 1 Binary output 			
ANTENNA:	CELLULAR & WI-FI			
SMA – 50 Ohms				
LTE: 2 dBi, ultra-wide	band, right angle dipole (2 included)			
WiFi: 1.8 dBi right ang	le dipole (1 included)			
FREQUENCY BANDS				
LTE: 700 MHz, AWS				
WCDMA: 800, 850, 19	00, 2100 MHz			
GSM: 850, 900, 1800,	1900 MHz			
CDMA: 850, 1900 MH	Z			
POWER				
Source	10 - 30 VDC			
Consumption	2.3 W receive mode Up to 3.5 W (GPRS transmission) Up to 5.5 W (UMTS/HSDPA/CDMA/LTE transmission)			
MECHANICAL				
Dimensions	1.7 x 3.1 x 4.5 in (42 x 80 x 113 mm), 35mm DIN rail			
Enclosure	Metal			
Weight	150 g			
ENVIRONMENTAL				
Operating Temperature	e			
RTLTE-3xx-W	-15 to +60°C			
RTLTE-3xx	-30 to +60°C			
Storage Temperature	-40 to +85°C			

INCLUDED WITH PRODUCT

- 2 LTE right angle dipole antenna
- 1 WiFi right angle dipole antenna
- 1 Ethernet cable



FEATURES						
WiFi Specification	ns 802.11 b/g/n - 2	2.4 GHz				
RX Sensitivity	11b 11g (HT20) 11n (HT20) 11n	11 Mbps 54 Mbps MSC7 MSC7	-85 dBm -70 dBm -66 dBm -62 dBm			
TX Output Power	11b 11g 802.11n 802.11n	11 Mbps 54 Mbps (HT20) (HT20)	19 dBm 16 dBm 15 dBm 15 dBm			
Security Protocol		. ,				
Authentication	64/128 WEP, TC					
NETWORKING						
DHCP – automati	c IP addressing in LAN n	etwork				
	and ports translation be		outside network			
Firewall – filtering	g of addresses, ports, pro ckup router function					
	access to the router with	ı a dvnamic IP	address			
VLAN 802.11Q -		,				
QoS – quality of s						
	nicate via CSD call					
PPPoE Bridge - P	PP frames encapsulation	n inside ETH f	rames			
VPN TUNNELING						
	L2TP – secure encrypted	d tunnels				
GRE tunnel – sim	ple tunnel without secur	ity measures				
CONFIGURATION	AND DIAGNOSTICS	,				
HTTP server - co	nfiguration via web serv	er				
Telnet – configura	ation and access to the f	ile system				
SNMP – router di	agnostics, communicatio	on with I/O an	d M-Bus			
Cellular state sign	nalization by LED					
On-line info on ce	ellular signal status (leve	l, cell, neighbo	ors)			
SMS info - powe	r on, cellular connection	or disconnect	tion			
SMS control - on	/off cellular connection,	switch SIM, I/	O, etc.			
Transferred data	counting, one more APN	as backup				
Remote router gr	oup configuration chang	e, switching a	mong configuration profiles			
SSH – encrypted ADDITIONAL FUR	configuration and acces	s to the file sy	vstem			
Linux based: prog	ram your own applicatio	ons				
NTP client, NTP S	erver – time synchroniza	ation				
SMS communication	tion – AT commands on	RS232, Etherr	net and I/O			
M-RAM memory	inside – router statistic s	saved into me	mory			
APPROVALS / CE	RTIFICATIONS					
	FCC Part 15					
	UL Class 1/Divis	sion 2 for haza	ardous locations			
Carrier Certificati	, - ,					
	EN 301 511, v9 EN 301 908-1&					
CE	ETSI EN 301 48					
		EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011				
Fastation	+ AC:2011 +	A2:2013				
Emission	EN 55022/A	munit.				
Immunity Sefety	ETS 300 342 im	iniunity				
Safety	EN 60950	ion				
Isolation	EN 60747 isolat	10/1				
	RIES - OPTION					
	4VDC, 20W, 1A Power S					
	ategory 5E Cable, UTP, 1					
	ategory 5E Cable, UTP, 3	. ,.				
	eplacement Antenna - Pe Intional Antenna - Penta-	, ,				

Optional Antenna - Penta-Band, Magnetic Mount SMA



GA110