

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Cellular Router - LTE

Spectre[™] RTLTE-300-x Series



Powered by





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.

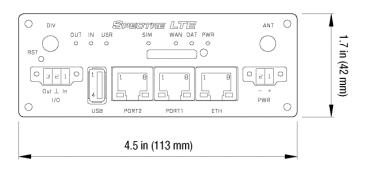
SERIES	LTE	EVDO/CDMA	UMTS/GSM
	~		✓
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ORDERING INFORMATION

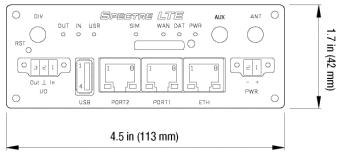
MODEL NUMBER	10/100	RS-232	RS-422/ RS-485	12 BIT I/0	802.11B/G/N WIFI	GPS
RTLTE-300 (-AT,-VZ)	1					~
RTLTE-302 (-AT,-VZ)	1	1				~
RTLTE-304 (-AT,-VZ)	1		1			~
RTLTE-322 (-AT,-VZ)	1	2				~
RTLTE-324 (-AT,-VZ)	1	1	1			~
RTLTE-330 (-AT,-VZ)	1			1		~
RTLTE-310 (-AT,-VZ)	2					~
RTLTE-311 (-AT,-VZ)	3			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



MECHANICAL DIAGRAM - WI-FI MODELS



Cellular Router - LTE

Spectre™ RTLTE-300-x Series

	SPECIFICATIONS			
	INTERFACES			
	Standard			
	Ethernet	10/100 Mbps		
	USB	USB Type A host		
	Binary I/O	1 input / 1 output		
	SIM	SIM card		
	Expansion Port Option	ons		
		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: SMA - 50 0hms

LTE: 2 dBi, ultra-wide band, right angle dipole (2 included)

CELLULAR & WI-FI

WiFi: 1.8 dBi right angle dipole (1 included)

FREQUENCY BANDS

LTE: 700 MHz, AWS

WCDMA: 800, 850, 1900, 2100 MHz GSM: 850, 900, 1800, 1900 MHz CDMA: 850, 1900 MHZ

POWER

Source 10 - 30 VDC2.3 W receive mode

Up to 3.5 W (GPRS transmission) Consumption

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

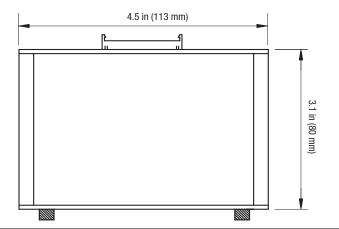
Operating Temperature

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

Ethernet cable



F	FEATURES				
٧	ViFi Specifications	802.11 b/g/n - 2.4 GHz			
F	RX Sensitivity	11b 11g (HT20) 11n (HT20) 11n	11 Mbps 54 Mbps MSC7 MSC7	-85 dBm -70 dBm -66 dBm -62 dBm	
1	TX Output Power	11b 11g 802.11n 802.11n	11 Mbps 54 Mbps (HT20) (HT20)	19 dBm 16 dBm 15 dBm 15 dBm	
5	Security Protocols	WAP-PSK, WAP2-	-PSK		
F	Authentication	64/128 WEP, TCIP, AES			
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NETWORKING

DHCP - automatic IP addressing in LAN network

NAT - IP address and ports translation between inside/outside network

Firewall - filtering of addresses, ports, protocols

VRRP - virtual backup router function

DynDNS client - access to the router with a dynamic IP address

VLAN 802.11Q - virtual LAN

QoS - quality of service

Dial-in - Communicate via CSD call

PPPoE Bridge - PPP frames encapsulation inside ETH frames

VPN TUNNELING

IPsec, OpenVPN, L2TP - secure encrypted tunnels GRE tunnel - simple tunnel without security measures

CONFIGURATION AND DIAGNOSTICS

HTTP server - configuration via web server

Telnet - configuration and access to the file system

SNMP - router diagnostics, communication with I/O and M-Bus

Cellular state signalization by LED

On-line info on cellular signal status (level, cell, neighbors) SMS info – power on, cellular connection or disconnection

SMS control - on/off cellular 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

ADDITIONAL FUNCTIONS

Linux based: program your own applications

NTP client, NTP Server - time synchronization

SMS communication - AT commands on RS232. Ethernet and I/O

	M-RAW memory inside – router statistic saved into memory		
	APPROVALS / CERTIFICATIONS		
		FCC Part 15	
		UL Class 1/Division 2 for hazardous locations	
	Carrier Certifications	Verizon, AT&T, T-Mobile	
	CE	EN 301 511, v9.0.2 EN 301 908-1&2, v3.2.1 ETSI EN 301 489-1 V1.8.1 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A0:2011 + A2:2013	
	Emission	EN 55022/A	
	Immunity	ETS 300 342 immunity	
	Safety	EN 60950	
	Isolation	EN 60747 isolation	

ACCESSORIES - OPTIONAL

MDR-20-24 24VDC, 20W, 1A Power Supply

C5UMB3FBG Category 5E Cable, UTP, 1 m (3 ft), Beige C5UMB10FBL Category 5E Cable, UTP, 3 m (10 ft), Blue

TG30 Replacement Antenna - Penta-Band, Right-Angle SMA GA110 Optional Antenna - Penta-Band, Magnetic Mount SMA