

Cellular Router - EVDO/CDMA, UMTS/GSM

Spectre[™] RT3G-300-x Series

Point (AP) or "Hotspot".



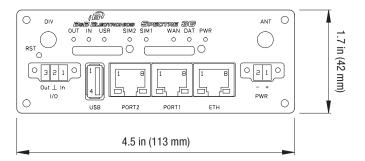
Built for plug-and-play simplicity with extensive remote management, deployment and customization options, the Spectre 3G cellular industrial router is used to wirelessly connect Ethernet equipment and other devices to the Internet or intranet. It creates secure connections in locations where cable connections are impractical. The standard configuration includes a 10/100 Ethernet port, USB host port, binary input/output (I/O) port and dual SIM card holders. Network redundancy is provided by the second 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, which allows the Spectre router to serve as a Wi-Fi access

The router supports the creation of VPN tunnels 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.

MECHANICAL DIAGRAM



PRODUCT FEATURES

- EV-DO/CDMA and HSPA+/GPRS/GSM cellular networks in one SKU
- Up to 5.7 Mbps upload and 14.4 Mpbs download speeds
- Industrial design wide operating range (-30 to +60 C)
- 10-30 VDC power
- Class 1/Division 2 Certified
- Modbus compatible
- Wi-Fi 802.11 b/g/n access point

ORDERING INFORMATION

	MODEL Number	WI-FI	ETHERNET 10/100	USB	1/0	RS-232	RS-422/ RS-485	I/O INPUT/ OUTPUT
	RT3G-300-W	√	1	1	1			
	RT3G-310-W	√	2	1	1			
	RT3G-320-W	√	1	1	1	1		
	RT3G-330-W	√	1	1	1			1
	RT3G-340-W	√	1	1	1		1	
	RT3G-300		1	1	1			
	RT3G-302		1	1	1	1		
	RT3G-304		1	1	1		1	
	RT3G-310		2	1	1			
	RT3G-311		3	1	1			
	RT3G-312		2	1	1	1		
	RT3G-314		2	1	1		1	
	RT3G-322		1	1	1	2		
	RT3G-324		1	1	1	1	1	
	RT3G-330		1	1	1			1

USA, Canada. Check with your local distributor for availability and options.

INCLUDED WITH PRODUCT

AC power adaptor 3G right-angle dipole antenna WiFi right-angle dipole antenna DIN rail clip

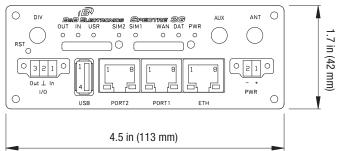
Ethernet cable

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 TRAB806/17103P Cellular Antenna, Multi-Band, Low Profile

RT3G-ANT001 3G Cellular Antenna, Penta-Band, Right-Angle SMA RT3G-ANT002 3G Cellular Antenna, Penta-Band, Magnetic Mount SMA

MECHANICAL DIAGRAM - WIFI MODELS



Cellular Router - EVDO/CDMA, UMTS/GSM

Spectre RT3G-300-x Series



SPECIFICATIONS

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INTERFACES				
Standard				
Ethernet	10/100 Mbps			
USB	USB Type A host			
Binary I/O	1 input / 1 output			
SIM 1	SIM card			
SIM 2	SIM card			
Expansion Port Options				
	Ethernet 10/100 Mbps RS-232 RS-422/485 I/O CNT: 4 Binary inputs 2 Analog inputs (4-20 mA) 1 Binary output (2 inputs may be configured as counters)			
ANTENNA:	CELLULAR & WI-FI			
SMA - 50 Ohms				
00 0 10:				

3G: 2 dBi, penta band, right angle dipole (2)

WiFi: 1.8 dBi right angle dipole (1)

FREQUENCY BANDS

Quad Band UMTS (WCDMA): 850, 900,1900 and 2100 MHz Quad-Band GSM/GPRS/EDGE: 850, 900, 1800 and 1900 MHz

POWER

Source $10 - 30 \, VDC$

300 mW receive mode Consumption

Up to 3.5 W (GPRS transmission) Up to 5.5 W (UMTS/HSDPA transmission)

MECHANICAL

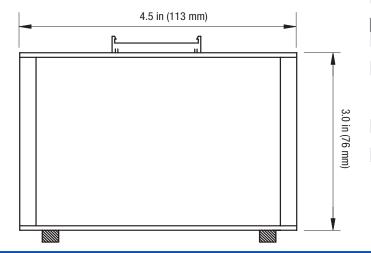
Dimensions 1.7 x 3.0 x 4.5 in (42 x 76 x 113 mm), 35mm DIN rail

Enclosure Metal Weight 150 q

ENVIRONMENTAL

Operating -30 to +60°C Temperature

Storage Temperature -40 to +85°C



FEATURES					
WiFi Specifications	802.11 b/g/n - 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 Protocols	WAP-PSK, WAP2-PSK				
Authentication	64/128 WEP, TCIP, AES				
NETWORKING					
DHCP – automatic IP addre	DHCP – automatic IP addressing in LAN network				
NAT – IP address and ports translation between inside/outside network			side 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-RAM memory inside - router statistic saved into memory

APPROVALS / CERTIFICATIONS				
	FCC Part 15, CE			
	Class 1/Division 2			
Certifications	AT&T, Rogers, T-Mobile, Sprint, Verizon, Telus, PTCRB			
CE	EN 301 511, v9.0.2 EN 301 908-1&2, v3.2.1 ETSI EN 301 489-1 V1.8.1 EN 60950-1:06 ed.2 + A11:09 + A1:10			
Emission	EN 55022/B			
Immunity	ETS 300 342 immunity			
Safety	EN 60950			
Isolation	EN 60747 isolation			

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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