



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

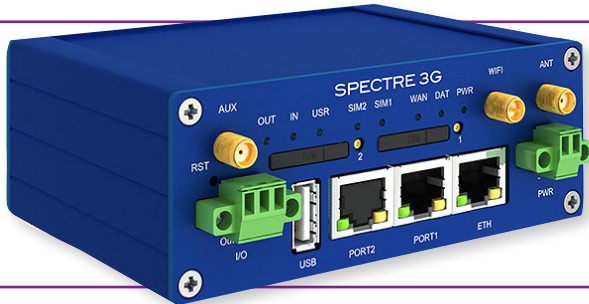
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Cellular Router - EVDO/CDMA, UMTS/GSM

Spectre™ RT3G-300-x Series



PRODUCT FEATURES

- EV-DO/CDMA and HSPA+/GPRS/GSM cellular networks in one SKU
- Up to 5.7 Mbps upload and 14.4 Mbps download speeds
- Industrial design - wide operating temperature (RT3G-3xx-W: -15 to +60 °C; RT3G-3xx: -30 to +60°C)
- GPS supported
- Class 1/Division 2 Certified
- Wi-Fi 802.11 b/g/n access point

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 dual 10/100 Ethernet port, USB host port, a binary input/output (I/O) port and one 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 Point (AP) or "Hotspot". All models support GPS. (Note: GPS and diversity antenna cannot be used at same time.)

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.

ORDERING INFORMATION

MODEL NUMBER	10/100	I/O BINARY	RS-232	RS-422/RS-485	USB	I/O AI/DI/DO	WI-FI
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	2		1		
RT3G-324	1	1	1	1	1		
RT3G-330	1	1			1	1	

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

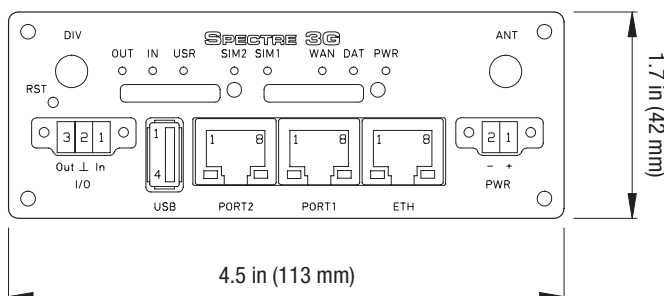
INCLUDED WITH PRODUCT

- 2 3G right-angle dipole antenna
- 1 AC power adaptor
- 1 WiFi right-angle dipole antenna
- 1 DIN rail clip
- 1 Ethernet cable

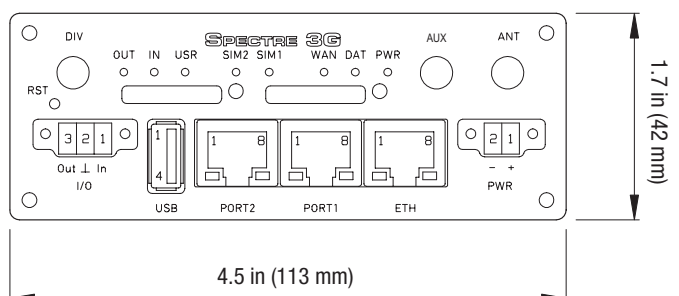
ACCESSORIES - OPTIONAL

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

MECHANICAL DIAGRAM



MECHANICAL DIAGRAM - WIFI MODELS



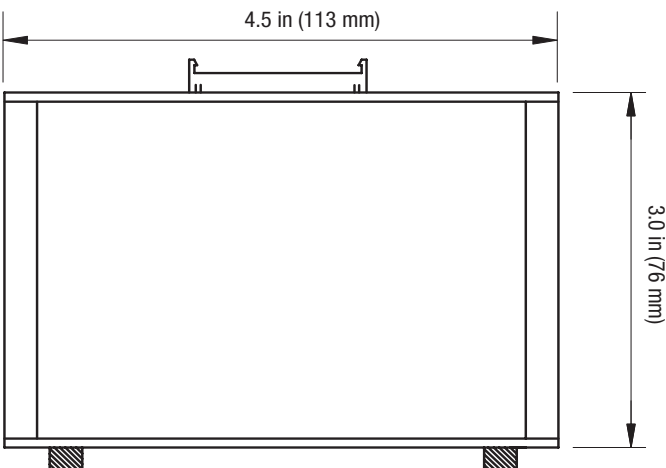
Cellular Router - EVDO/CDMA, UMTS/GSM

Spectre RT3G-300-x Series



SPECIFICATIONS

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
	3G: 2 dBi, penta band, right angle dipole (2)
	WiFi: 1.8 dBi right angle dipole (1)
TECHNOLOGY BANDS	
	HSPA+/UMTS 850/900/AWS/1900/2100 MHz
	EGPRS 850/900/1800/1900 MHz
	CDMA 800/1900 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 g
ENVIRONMENTAL	
Operating Temperature	
RT3G-3xx-W	-15 to +60°C
RT3G-3xx	-30 to +60°C
Storage Temperature -40 to +85°C	



FEATURES			
WiFi Specifications	802.11 b/g/n - 2.4 GHz		
	11b	11 Mbps	-85 dBm
	11g	54 Mbps	-70 dBm
RX Sensitivity	(HT20) 11n	MSC7	-66 dBm
	(HT20) 11n	MSC7	-62 dBm
	11b	11 Mbps 54	19 dBm
	11g	Mbps	16 dBm
TX Output Power	802.11n	(HT20)	15 dBm
	802.11n	(HT20)	15 dBm
Security Protocols	WAP-PSK, WAP2-PSK		
Authentication	64/128 WEP, TCIP, AES		
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-RAM memory inside – router statistic saved into memory			
APPROVALS / CERTIFICATIONS			
	FCC Part 15, CE		
	Class 1/Division 2		
Certifications	Verizon, AT&T, T-Mobile, Rogers, Telus		
	EN 301 511, v9.0.2		
	EN 301 908-1&2, v3.2.1		
CE	ETSI EN 301 489-1 V1.8.1		
	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013		
Emission	EN 55022/B		
Immunity	ETS 300 342 immunity		
Safety	EN 60950		
Isolation	EN 60747 isolation		