imall

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.

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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





Spectre Network Gateway

Compatible with Wzzard Intelligent Edge Nodes



The Wzzard[™] Sensing Platform

The Wzzard intelligent wireless sensor platform makes it quick and easy to connect edge devices and assets and communicate their data to your IoT application for visualization, analytics or integration into business applications. The Wzzard platform connects to a vast range of industry-standard sensors. It uses Wzzard Intelligent Edge Nodes and a wireless SmartMesh IP network to transmit sensor data to the Spectre Network Gateway. The Spectre Network Gateway can connect to the Internet via Ethernet connections or the 3G cellular data network.

The Spectre Network Gateway

The Spectre Network Gateway connects to the SmartMesh IP wireless mesh network and the Wzzard Intelligent Edge nodes through an integrated 802.15.4e radio. The Spectre Network Gateway receives the incoming data stream from edge nodes in MQTT-SN format and converts the information into MQTT protocol for transport to an MQTT broker on your network or on the Internet. The leading IoT applications providers include MQTT brokers in their solutions, and open source MQTT brokers are available for installation on private networks.

The Spectre Network Gateway is built for plug-and-play simplicity with extensive remote management, deployment and customization options. It connects Ethernet equipment and other devices to the Internet or intranet via either 3G cellular or 10/100 wired Ethernet. The standard configuration includes a 10/100 Ethernet port, USB host port, binary input/output (I/O) port and an 802.15.4e radio. It also has an auxiliary port that can be configured for other purposes, like Ethernet or RS-232/485/422.

Secure Connections

To ensure secure communications the Spectre Network Gateway supports the creation of VPN tunnels using IPsec, OpenVPN and L2TP. The web interface provides detailed statistics about gateway activities, signal strength, etc. The gateway supports DHCP, NAT, NAT-T, DynDNS, NTP, VRRP, control by SMS, and many other routing functions. The Spectre Network Gateway also provides diagnostic functions which include automatically monitoring the PPP connection, automatic restart in case of connection losses, and a hardware watchdog that monitors the Spectre Network Gateway status.

PRODUCT FEATURES

- 802.15.4e SmartMesh IP radio
- 10/100 Ethernet network interface
- EV-D0/CDMA and HSPA+/GPRS/GSM cellular network interface
- Communicates with Wzzard Intelligent Edge Nodes
- Industrial design wide operating range (-30 to +60 C)
- 10-30 VDC power
- Class 1/Division 2 Certified

ORDERING INFORMATION

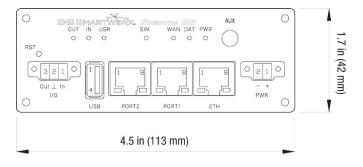
SPECTRE NETWORK GATEWAY MODEL NUMBERS				
ERT351	Ethernet Network Gateway with 2 Ethernet ports, wireless mesh 802.15.4e, AC power adapter			
RT3G-350	Cellular/Ethernet Network Gateway with 1 Ethernet port, wireless mesh 802.15.4e, 3G cellular, AC power adapter			
RT3G-351	Cellular/Ethernet Network Gateway with 2 Ethernet ports, wireless mesh 802.15.4e, 3G cellular, AC power adapter			
RT3G-352	Cellular/Ethernet Network Gateway with 1 Ethernet port, 1 RS-232 port, wireless mesh 802.15.4e, 3G cellular, AC power adapter			
RT3G-354	Cellular/Ethernet Network Gateway with 1 Ethernet port, 1 RS-485 port, wireless mesh 802.15.4e, 3G cellular, AC power adapter			

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

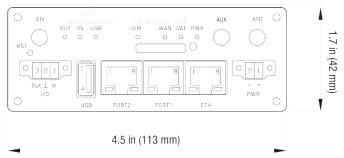
ACCESSORIES

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 SPECTRE (ETHERNET) ERT351



MECHANICAL DIAGRAM SPECTRE (CELLULAR/ETHERNET) MODELS

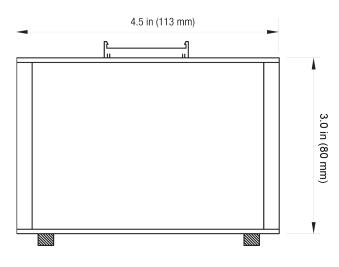


Spectre Network Gateway



SPECIFICATIONS

INTERFACES						
Standard						
Ethernet	10/100 Mbps					
USB	USB Type A host					
Binary I/O	1 input / 1 output					
SIM Card	1 SIM card port					
802.15.4E radio						
Expansion Port Option	Expansion Port Options					
	Ethernet 10/100 Mbps RS-232 RS-422/485					
ANTENNA:						
SMA – 50 Ohms						
3G: 2 dBi, penta band,	right angle dipole (2 included)					
802.15.4e, 2.4 GHz, 5	dBi (1 included)					
3G CELLULAR FREQU	ENCY BANDS					
Quad Band UMTS (WC	DMA): 850, 900,1900 and 2100 MHz					
Quad-Band GSM/GPR	S/EDGE: 850, 900, 1800 and 1900 MHz					
POWER						
Source	10 – 30 VDC					
Consumption	2.3W receive mode 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 80 x 113 mm), 35mm DIN rail					
Enclosure	Metal					
Weight	150 g					
ENVIRONMENTAL						
Operating Temperature	-30 to +60°C					
Storage Temperature	-40 to +85°C					



	MESH IP RADIO 802.15	. 45					
	Conditions	Min	-	Max	Units		
Parameter	CONULIONS	2400	Тур	2.4835	GHz		
Frequency Band		2400	15	2.4033	GITZ		
Number of Channels			5		MHz		
Channel Separation Channel Clear			5 2405 +		MHz		
Frequency			2403 + 5*(k-11)		IVITIZ		
,	IEEE 802.15.4 Direct		- ()				
Modulation	Sequence Spread						
Raw Data Rate	Spectrum (DSSS)		250		kbps		
naw Dala nale	25 °C, 50% RH, +2dBi	m	200		Коро		
	Omni-Directional						
Range	Antenna, Antenna 2 m						
0	Indoor		100		m		
	Outdoor		300		m		
Free Space			1200		m		
Receiver Sensitivity	Packet Data Error Rate (PER) = 1%			-93	dBm		
Receiver Sensitivity	PER = 50%			-95	dBm		
Output Power Deliv	ered to a 50 Ω load						
High Calibration				8	dBm		
Setting Low Calibration				0	dBm		
Setting				0	ubiii		
NETWORKING AND S	ECURITY						
DHCP – automatic IP a	addressing in LAN network	(
NAT - IP address and	ports translation between	inside/c	utside net	work			
Firewall – filtering of a	addresses, ports, protocols						
VRRP – virtual backup	router function						
DynDNS client – acce	ss to the router with a dyn	amic IP	address				
QoS – quality of service	ce						
Dial-in – Communicate via CSD call							
PPPoE Bridge – PPP fi	rames encapsulation inside	e ETH fr	ames				
IPsec, OpenVPN, L2TP – secure encrypted tunnels							
GRE tunnel – simple t	unnel without security mea	asures					
CONFIGURATION AND	D DIAGNOSTICS						
HTTP server – configu	ıration via web server						
Telnet – configuration	and access to the file syst	tem					
SNMP – router diagno	stics, communication with	I/O and	M-Bus				
Cellular state signaliza	ation by LED						
	r signal status (level, cell,	•	,				
SMS info - power on,	cellular connection or disc	connecti	on				
SMS control - on/off of	cellular connection, switch	SIM, I/C), etc.				
Transferred data coun	ting, one more APN as bac	kup					
Remote router group	configuration change, swit	ching ar	nong confi	guration p	rofiles		
	iguration and access to the	e file sy	stem				
APPROVALS / CERTII	ICATIONS						
	FCC Part 15, CE						
	Class 1/Division 2						
Certifications	AT&T, Verizon, PTCRB (C approvals.)	ontact B	&B Electronic	cs for the la	test		
	EN 301 511, v9.0.2						
CE	EN 301 908-1&2, v3.2.1	1					
	ETSI EN 301 489-1 V1.8 EN 60950-1:06 ed.2 + A		- A1·10				
Emission	EN 55022/B	11.03 4	71.10				
Immunity	ETS 300 342 immunity						
Safety	EN 60950						
loolotion							

EN 60747 isolation

Isolation