Wireless Mesh Manager 3G Series



Data you want, when you want it...

GSS's Wireless Mesh Manager 3G (WMM3G) is a battery powered, wireless mesh sensor network manager with 3G network connectivity. Wireless mesh sensor networks can now be deployed anywhere, regardless of the central monitoring location. WMM3G delivers alerts via SMS and uploads data files via FTP or other file sharing services. A year of unattended operation was a key requirement during the design and development of WMM3G, making it perhaps of the most energy efficient device in its class.

Features

- Automatic creation and maintenance of sensor mesh networks ranging in size from one to one hundred sensors operating in bidirectional mode.
- Large capacity, removable storage for recording sensor data in excess of 5 years. Data culling at scheduled intervals is available.
- Scheduled and automatic data upload to FTP servers and file-sharing systems.
- Formatting and delivery of SMS alerts to preconfigured cell phones.
- GSS TAV Console Offline Mode allows all sensor configuration settings to be changed and uploaded to an FTP server.
- A user initiated FTP download will apply bulk configuration changes.
- Ad-hoc remote configuration via SMS allows setting of sensor and 3G parameters.
- Supports quick, in-situ configuration via USB cable connection and GSS application running on a Windows PC. This permits automatic sensor detection and saves configuration settings locally as well as to an FTP server.
- Firmware upgrades can be performed remotely and in-situ with minimal operational impact.
- Operates for a year under normal operating conditions on four lithium primary D cell batteries.
- Antenna connectors allow alternate antennas and cable extenders for better communication reception.

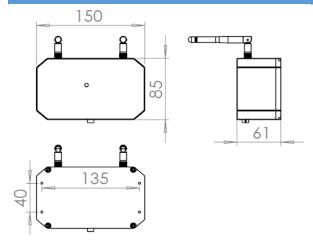


Applications

WMM3G is ideal for installation in remote locations where data from multiple sensors needs collection and delivery to internet based servers.

- Rock-fall barrier monitoring
- Slope monitoring
- Tree monitoring
- Remote blast monitoring
- Pipeline monitoring
- Bridge monitoring
- Tunnel monitoring

Dimensions



Contact us :



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Wireless Mesh Manager 3G Series



General Specifications	
Part Numbers	WMM3G-01/03
Mesh Network Communication	
Standards	2.4 GHz 6LoWPAN and 802.15.4e standards
Range	300m line of sight with external, elevated antenna
Reliability	> 99.999%
Upload Rate	~3.2Kb/s
Security	Secure Mesh with 128-bit AES Encryption. NIST Certified Security
Time Stamping	Highly Accurate Time Stamping to 1millisecond/node
Supported Sensors	GSS Tilt, Vibration, Impact, 4-20ma devices and repeaters
Regulatory Compliance	ROHS, Korea: CRM LT9 Eterna IC: 5853A Eterna2 CE Japan: 208-130008 FCC ID: SJC Eterna2
3 G (Network Communication
Features	Penta-band module supporting GSM/GPRS/EDGE/UMTS/HSPA/HSUPA
Frequency Bands	800/850/900/1900/2100MHz@UMTS 850/900/1800/1900MHz@GSM
HSUPA	Release 7 (category 6). Max. 5.76Mbps
HSDPA	Release 7 (category 8). Max. 7.2Mbps
EDGE	Multi-slot Class 33. Max. 296Kbps (DL)/Max 236.8kbps (UL)
GPRS	Multi-slot Class 33. Max. 107Kbps (DL)/Max. 85.6Kbps (UL)
UMTS	Release 99/7. Max. 384Kbps (DL)/Max. 384Kbps (UL)
GSM	Release 99/4.
SMS	Point-to-point MO and MT, SMS Cell Broadcast, Text and PDU Mode
Output Power	Class 3 (24dBm +1.7/-3.7dB) for UMTS bands
	Class E2 (27dBm±3dB) for GSM850 and EGSM900
	Class E2 (26dBm±3dB) for DCS1800 and PCS1900 Class 4 (33dBm ±2dB) for GSM 850/900
	Class 1 (30dBm ±2dB) for GSM 1800/1900
Certificates	Anatel, CE, DOC, FCC, GCF, ICASA, IFETEL, PTRCB, RCM
	Power Consumption
Monitoring (3G Idle)	1.3ma (monitoring) and up to 400ma when FTP/SMS processing
Est Battery Life (4 x Lithium D cells)	1 year
	Environment
Operating Temperature	-40 °C TO +85 °C
Mechanical Shock Limit	20,000g
MTBF	1.1 Million Hours (Telcordia Method I, GF/30C)
	0.4 Million Hours (Telcordia Method I, GM/35C)
Dimensions	L 150mm x W 85mm x H 61mm (not including antenna)
Mounting Flange	L170mm x W 90mm x H 4mm
Weight	~1Kg without flange, 1.2Kg with flange (includes batteries and antenna)
Integration	
External Connectors	1 x MicroUSB connector for Management interface
Software	1 x 4-pin Hirose connector for Solar Panel connector GSS TAV Console Application (Windows XP,7,8 and 10)
Software	
	Options Verieus resourties estima are quillele
Mounts	Various mounting options are available

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