

USB Management Node WMD Series



Data you want, when you want it...

GSS's Wireless Management Dongle (WMD) is a USB dongle that attaches to Windows based PCs and establishes a wireless mesh network. Wireless mesh sensors (WMS and WMI) can join the network and send data and alerts to the WMD. The WMD handles the communication while the TAV Console provides the intelligence to process sensor data and the PC provides the necessary compute and storage infrastructure.



Features

- Automatic creation and maintenance of sensor mesh networks ranging in size from 1 to 100 sensors with bi-directional communications.
- Leverages the PC infrastructure including compute, network and storage. The PC network allows the sensor network to be remotely managed and data to be remotely stored (i.e. Dropbox, Google Drive).
- All data sensor data is contained within the encrypted sensor network and stored a user defined location. The user owns the data and decides how it will be used and shared.

Applications

WMD is ideal for installations on site offices with power and where sensors will be positioned near the site office. The sensor data can be placed on the PC or internet based servers. The WMD applications include:

- Construction site monitoring
- Slope and Rock-fall barrier monitoring
- Blast monitoring
- Pipeline monitoring
- Bridge and Tunnel monitoring

General Specifications

Part Numbers	WMD-01		
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 WMS (tilt, vibration) and WMI (4-20mA devices) Series Sensors		
Regulatory Compliance	ROHS, CE	Korea: CRM LT9 Eterna Japan: 208-130008	IC: 5853A Eterna2 FCC ID: SJC Eterna2
Environment			
Operating Temperature	Same as connected PC		
Dimensions	L 80mm x W 12mm x H 30mm (not including antenna)		
Weight	~70g with antenna		
Integration			
External Connectors	1 x USB connector		
Software	Tilt and Vibration Console Application (Windows XP,7,8 and 10)		

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