

## W.I.M.S Access Point – Depot WLAN/3G Module Wireless Intelligent Monitoring System

### Key Features

- Remote health checking of Depot WLAN system via GPRS / 3G and ADSL.
- PUSH diagnostics alerting of network health / failures direct to maintenance provider.
- Embedded Linux remote agent syncs information to secure Cloud Server to give instant fault visibility, reporting and remote management capability.
- Simple access management via secure web-portal using any browser.
- Supports health checking to other legacy network devices. \*\*
- Supports live video management via 3G / GPRS using “public IP” SIM cards.
- Supports full video management including playback / preview and back up via GPRS / 3G and WLAN.
- Integrated video back up to a secure web-based video vault with video sharing feature for evidence distribution.
- User-definable report distribution via email and SMS.
- Vehicle telemetry monitoring and exception reporting supported to vehicles in depot.
- IP65 Rated Enclosure

### Data / failure monitoring options

TCP/IP	Network Serial Bus
WLAN 5 GHz	HDD
WLAN 2.4 GHz	Processor Health
USB	Printers
Remote	Managed HUB /
Workstations	ADSL routers

### Main PCB Specification

**Operating system:** Custom Embedded Linux

**CPU:** 500Mhz AMD Geode LX800 DRAM  
256MB DDR DRAM

**Storage:** 4GB SLC Compact Flash – OS and Samba

**Power:** DC jack or Passive POE, 7VDC to 20VDC

**Connectivity:** 2 Ethernet channels (via VT6105M 10/100)

**I/O:** DB9 serial port, dual USB port



### Wireless Modules

#### Enterprise Class Wireless LAN – via Mini PCI

- 802.11 a/b/g (up to 108 Mbps) – 2.4 & 5 GHz Frequency switching
- Up to 200mw Transmit power – External range of up to 500m +
- Advanced Security - WEP, WPA AES, WPA2 (IEEE 802.11i), IEEE 802.1x Authentication
- Additional support for 802.11 d,h,l,j including multi country roaming support,
- DFS/TPC: Dynamic Frequency selection / transmit power control for international fleet operation.
- Support for 802.11e : the QOS support for wireless multimedia enhancements
- Extended Passive PoE cable runs supported - up to 200 ft using CAT5e or better.

#### Cellular (3G/GPRS) – via Mini PCI

- Support third generation (3G) digital cellular standards
- Supports quad band EDGE/GPRS/GSM 850/900/1800/1900 MHz
- Supports tri-band UMTS
- Peak download speeds up to 7.2 Mbps\*
- Peak upload speeds of up to 2.0 Mbps\*
- Dual antenna diversity for improved performance

\* Subject to network conditions

\*\* Enquire if your legacy Network devices are already supported.

Internal Overview:



Solution Connectivity Overview

