



W.I.M.S. Module Automotive Wireless Intelligent Monitoring System

Key Features

- Remote Health Checking of Train CCTV Systems via GPRS / 3G and WLAN
- PUSH Diagnostics / Alerts and Exception Reporting direct to your Maintenance Provider
- Embedded Linux Remote Agent syncs information to a Headend Server to give instant Fault Visability and Reporting
- Simple access to Information via Secure Web-Portal using any Browser
- Supports Health Checking to other Legacy CCTV Systems**
- Supports Live Video Management via 3G / GPRS using "Public IP" SIM Card
- Supports Full Video Management including Playback / Preview and Backup via GPRS / 3G and WLAN
- Integrated Video Backup to a Secure Web-Based Video Vault with Video Sharing Feature for Evidence Distribution
- User Definable Report Distribution via Email and SMS
- GPS Vehicle Tracking with Live Video
- G-Sensor Integration
- Vehicle Telemetry Monitoring and Exception Reporting

Data / Failure Monitoring Options

- | | |
|----------------|----------------------|
| ● CANbus | ● RS422 |
| ● X-Y G-Sensor | ● Tacho |
| ● LONworks | ● ATP |
| ● RS232 | ● PASCOM |
| ● FMS | ● Gearbox Controller |
| ● EDC | ● IBIS |
| ● HVAC | ● Lighting |
| ● Door Modules | ● Legacy CCTV |
| ● SCADA | ● Earth Fault Detect |
| ● ECU | ● RS485 |

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

- 802.11a/b/g (up to 108Mbps) - Seamless 2.4 & 5Ghz Switching
- Up to 200mw Transmit Power - External Range up to +500m
- Advanced Security - WEP WPA AES, WPA2 (IEEE 802.11i), (IEEE 802.1x Authentication)
- Additional support for 802.11 d, h, i, 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

Mobile - via Mini PCI

- Support for Third Generation (3G) Digital Cellular Standards
- Supports Quad-Band EDGE / GPRS / GSM 850/900/1800/1900 Mhz
- Supports Tri-Band UMTS
- Peak Download Speed up to 7.2 Mbps*
- Peak Upload Speed up to 2.0 Mbps*
- Dual Antenna Diversity for Improved Performance

* Subject to Network Conditions

** Enquire if your legacy CCTV is already supported