Intelligent Transportation System

Proxim Transportation Solutions

Proxim products bind all the different components of a transportation system over hundreds of square miles with an end-to-end wireless network. Proxim’s high-bandwidth, high-availability solutions have enabled a broad range of ITS applications including traffic signals, digital messaging signs, electronic toll collection, and speed sensors. These solutions facilitate scalable, reliable and cost-effective Transportation systems over different terrains.

Advantages

- **Cost-effective:** Does not require any cabling/ trenching thus avoiding huge expenditures
- **Carrier-class uptimes:** Ensures non-stop real-time transmission from surveillance cameras and other ITS components
- **Scalable:** Deploys virtually anywhere - across rugged terrain, bodies of water and remote areas and within no time

Applications

- Update dynamic message signs along highways to warn drivers of road conditions, accidents and detours
- Seamless connectivity to traffic management centers
- Solar power traffic detection radar sites
- Wireless remote management

www.proxim.com
City Wide Surveillance

With no expensive trenching, cabling and implementation cost equivalent to 1/10th of a wire based surveillance network. Proxim’s wireless solutions prove to be an ideal choice for an exclusively private, city wide surveillance network. Powered with MIMO and proprietary WORP™ technology, Proxim’s solutions enable high resolution, real-time video from security cameras to be transmitted to the surveillance centers where various activities and infrastructure of your city can be monitored.

Education

With wireless solutions from Proxim, educational and academic institutions can be assured of a safe and secure campus. Proxim based ITS applications for the education space involve comprehensive solutions ranging from video surveillance of properties and assets such as school buses, parking spots etc to remote administration of traffic applications within the campus.
Sample
Deployments

Highway

With Proxim's high uptime, low-cost, MIMO based PtMP subscriber units and PtP bridges, ITS devices can now be inter-connected with much less expense and more scalability in comparison to the traditional wired ITS solutions which involve time consuming activities of trenching and cabling not to mention the heavy capital and operational expenditure.

Railway System

By leveraging Proxim's wireless solutions railway organizations can cost effectively and effortlessly install various ITS components even in challenging spots such as underground tunnels etc. Additionally Proxim's 8200 series with its roaming capability allows passengers accessing the internet via Wi-Fi hotspots and control stations to seamlessly receive and transmit data from fast moving mobile trains.
Proxim Edge

Proxim video surveillance solutions provide the following advantages:

- Secure wireless transmission thanks to AES 128 encryption and the legendary WORP® protocol
- Asymmetric bandwidth management and IGMP snooping ideal for video backhaul
- A license free solution that can be programmed to either 5.4Ghz or 5.8Ghz, ideal for the European environment
- Uses the latest MIMO technology
- High end QoS designed to WiMAX specifications
- Low latency, 3/5ms, ideal for voice and real time video transfer
- Secure management : Web (SSL), Telnet (SSH) and SNMP (v3)
- VLAN capability for enhanced traffic control
- Built in iPerf tool for throughput measurement
- IPv4 and IPv6 included for future network evolution
- High speed roaming upto 295Km/h (185Mph)
- BSU redundancy and dynamic channel selection to ensure continuity of services whatever the conditions

Standard Solutions vs WORP®

Collisions and retransmission cause adverse effects on usable bandwidth

Dynamic optimization of data rate ensures superior performance and throughput