DATA-LINC GROUP

Wireless on Watch—
License-free Ethernet radio modems support wireless video security cams and compression systems

Data-Linc Group uses a state-of-the-art video compression system and CCTV/Dome cameras* that allow the Ethernet web cam and Ethernet based PLC communication to combine across the same Wireless Ethernet radio link. Our modems provide exceptional signal transmission of video data up to 35 miles away — farther with repeaters— with line-of-sight and omnidirectional antenna. And they have a 7+ frames per second capability without expensive specialized antennas.

Data-Linc's license-free, frequency hopping spread spectrum radio modems are ideal for security systems, not only because of their ultra reliable, long-range multi-point data transfer and frames per second capabilities but also for their flexibility. A basic wireless security system includes two SRM6210E Ethernet radio modems (one Master and one Remote)and a video camera or any other monitoring device (Video also requires a DVR or analog/digital converter.). Because of the modular design, the system can be extended as the need arises by adding other security equipment with the necessary Remote/Repeater at each surveillance location reporting back to the single Master. For more information contact sales@data-linc.com.

* A number of brands of cameras may be used. Please contact Data-Linc at (425) 882-2206 Pacific Coast Time or email sales@data-linc.com for a list of compatible manufacturers.
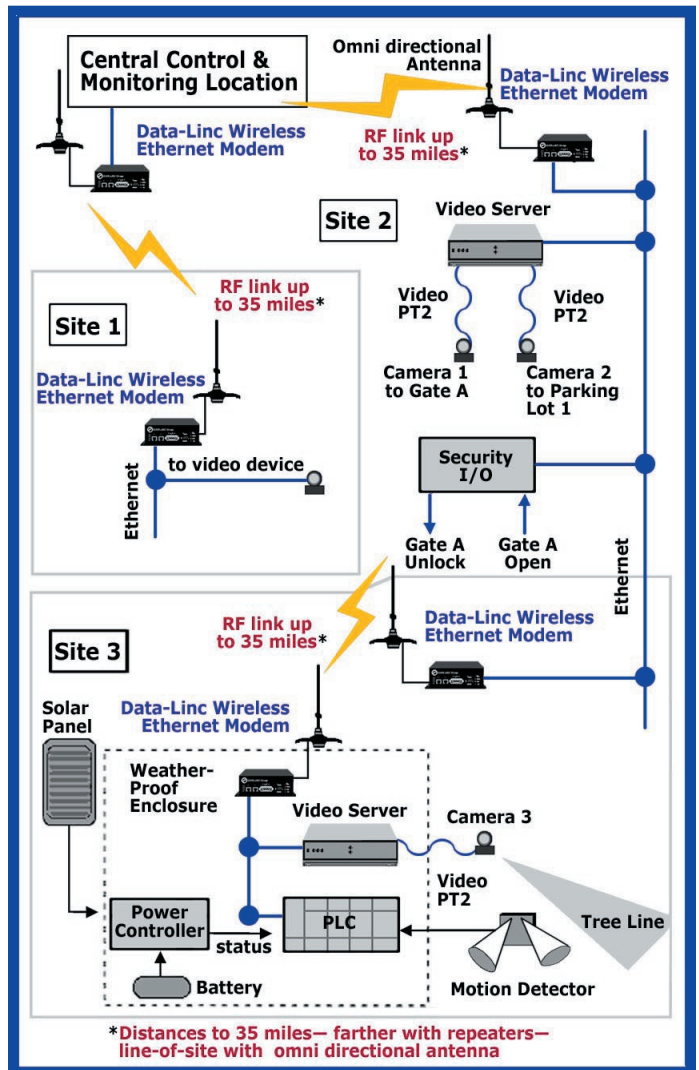
DATA-LINC GROUP SRM6210E

NEW

Wireless Ethernet modems sport enhancements

- Extended operating temperature (-40° to + 75° C) – now standard
- Password protection – added security
- The SRM6210E and SRM6200E may be used together in the same RF network
- Smaller footprint (2.45"H x 3.38"W x 6.3"L)
- Reduced power consumption
- Latching screw terminal power supply connector
- 10 to 28 VDC power range (115 VAC transformer included, other voltages available)

"Virtual Visits" Save City Time, $$$$

Central site to monitor and manage City of Bellevue traffic

Traffic control and maintenance departments are continually challenged to relieve traffic congestion and maximize flow while staying within budget. An important component involves monitoring intersection devices to ensure optimal performance and data collection. These pressures are coupled with continued budget reductions or constraints.

A variety of smart devices such as loop and/or emergency detectors and controllers are located at each intersection. Up until now, traveling to the location to access this data cost a municipality time and labor of up to $1,000 per visit. In a large metropolitan area, these costs could rise dramatically, and during harsh conditions, on-site visits might be impossible. Accessing data and implementing modifications can now be accomplished remotely by utilizing the Data-Linc Group CCS9000 Comprehensive Communications System.

Remote Sites

Many municipalities use a combination of communication devices— wireless radio, dial-up/leased line and private wire— to effectively control and maintain traffic and safety devices. A combination of communication equipment is not uncommon.

Communication devices located at remote stations can endure extreme temperatures, be constrained by physically small panels or enclosures and may be located in difficult terrain, miles from the central facility.

The Data-Linc CCS9000 was designed to accommodate the diverse geographics and communication needs of the traffic and safety market. The CCS9000 offers:
- The ability to monitor, troubleshoot and program remote data tracking and control devices from one or more central locations

- Multi-port smart communications to any remote location
- Communications over virtually any communication medium or combination of paths
- Transparent interface with video systems for visual monitoring or logging
- Seamless connectivity, simple installation and ease of use

The CCS9000 communicates over a variety of mediums or combination of paths— Telco dial-up and leased lines, private wire networks and/or radio modems. Wireless communications to remote locations can exceed 35 miles, utilizing a simple, omnidirectional antenna with line-of-sight. Using a laptop or computer, remote serial data can then be managed, viewed, collected and modified at a central facility.

Any central location with a computer can communicate with any remote device with the CCS9000, eliminating time-consuming on-site programming and monitoring. Because the CCS9000 is so versatile, the City of Bellevue continues to expand the CCS9000 throughout their 31 square mile metropolitan area.

Case in Point

The City of Bellevue, located east of Seattle on Lake Washington, hosts a population of more than 110,000, with a workforce exceeding 131,000. In the past 20 years, Bellevue has transformed itself from a bedroom community to a major regional business and retail center. When you're one of the fastest growing cities in the State of Washington, traffic management is a continuous job.

The CCS9000 system saves the City of Bellevue valuable time and money.

Dan Plute, traffic signal maintenance supervisor for the City of Bellevue, reflects the high tech nature of this city. He has used the CCS9000 for many years. Since its current standard for signal cabinets calls for the CCS9000, Bellevue is deploying these modems citywide. All cabinet replacement, new construction and critical areas retrofitting will be upgraded to the CCS9000 technology.

Master and Remote CCS9000 Data Switch

For more information regarding the CCS9000 Comprehensive Communication System or any other of Data-Linc's communication capabilities, contact Data-Linc Group at (425) 882-2206 Pacific Coast Time, fax (425) 8675-0865 or email sales@data-linc.com.

The CCS9000 Comprehensive Communication System reduces the labor costs typically required for technicians to implement on-site changes or gather data. The CCS9000 allows any multi-vendor remote device with a serial port to be connected to a single modem/ multi-port smart switch. Changes, repairs and/or data can be accessed, reviewed and changed from the central location using Data-Linc Group **Traffic Connections**™ software. Traffic Connections automatically establishes the communications link via an easy-to-use, point and click menu. Traffic Connections orchestrates each communication session, switching from one device to the next and is transparent to any vendor specific software. The technician can then recheck and verify any changes 24 to 48 hours later using Traffic Connections software rather than performing a costly on-site confirmation.

The "…CCS9000 system saves the City valuable time and money," says Plute. "A virtual intersection visit is simply more efficient than performing on-site visits."

The CCS9000, coupled with Traffic Connections, have simplified the process by reducing time and labor costs. A "virtual intersection visit" is a phrase Plute coined to describe the remote electronic traffic signal maintenance, repair and management process. "The Data-Linc CCS9000 system saves the City valuable time and money," said Plute. "We can perform modifications to the timing of traffic lights, gather loop detector data or obtain a simple traffic count without going to each cabinet to download the information. A virtual intersection visit is simply more efficient than performing on-site visits...The CCS9000 is a standard piece of equipment for the City of Bellevue."
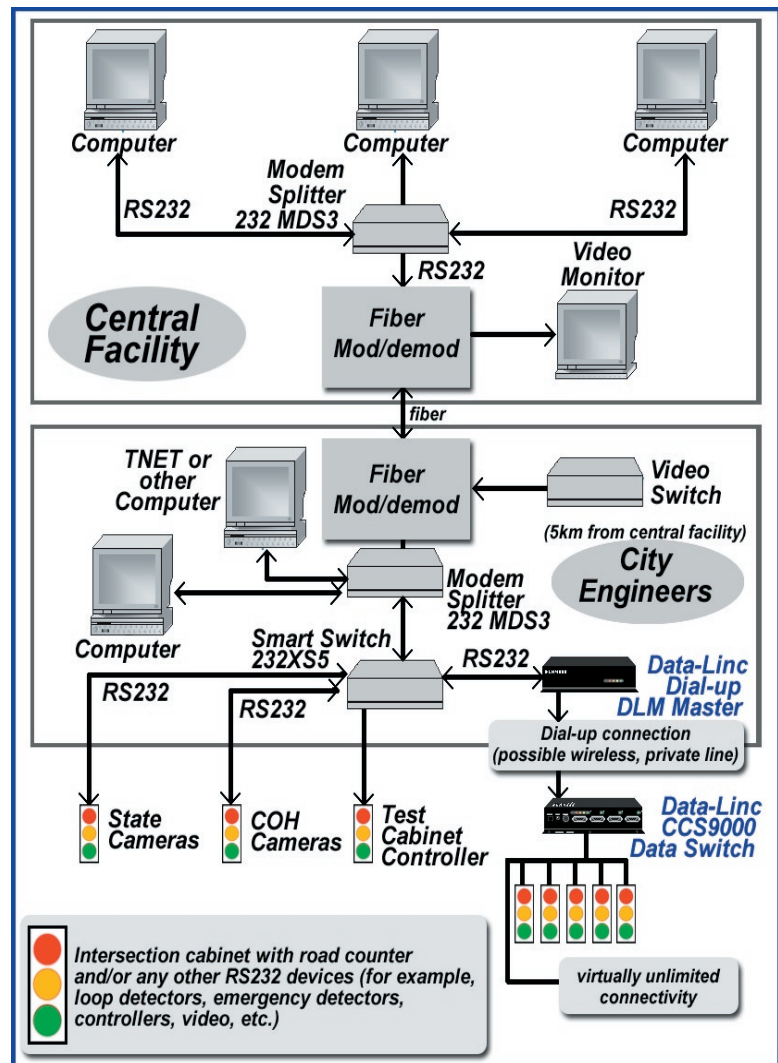

Diagram shows the Data-Linc Group CCS9000 Comprehensive Communication System integrated into a Bellevue, Washington, traffic management application.

Featuring our enhanced wireless Ethernet modems, the SRM6210E and the SRM6310E

The new SRM6210E and SRM6310E license-free, frequency hopping spread spectrum wireless Ethernet Radio modems offer a smaller footprint (2.45"H x 3.38"W x 6.3"L), flexible mounting— movable brackets and optional DIN-rail mount clip— and an extended operating temperature range of -40 to 167° F (-40 to 75° C). The SRM6210E is designed specifically for the license-free 902-928 MHz ISM band while the SRM6310E is designed for the 2.4-2.483 GHz ISM band. Both are also fully RF compatible with their counterparts, the SRM6200E and SRM6300E models.

Data sheets for SRM6210E and the SRM6310E RF wireless Ethernet modems are available— visit the Product section of our web site www.data-linc.com, contact Data-Linc Group at (425) 882-2206 Pacific Coast Time or email info@data-linc.com.

FAQ
Comprehensive Communication System— CCS9000

What communication paths can the CCS9000 use?
The CCS9000 Comprehensive Communication System utilizes Data-Linc Group technology over radio and dial-up /leased line paths. A single medium or a combination of media can make up the system. This use of multi-path communication gives the monitoring system the utmost flexibility.

With how many remote devices can I communicate?
You can have as many remote devices in your system as you need. Each CCS9000 has four communication ports. Although you can only communicate with a single port at a single site at one time, you can easily and quickly switch from one port to another and one cabinet to another with the Data-Linc Group CONNECT™ or Traffic Connections™ software.

Can the CCS9000 communicate to remote devices in real time?
Yes. The CCS9000 connects to a selected individual port on a selected remote CCS9000 and maintains a real-time connection with that device.

What kind of interface is used at the Remote site?
All of the CCS9000 Remotes have 4 DB-9 male DTE ports. When the port is activated by the CONNECT or Traffic Connections software, the transmit, receive and ground signal lines are enabled.

At what data rate (speed) can the system communicate?
The CCS9000 system will communicate at all the following baud rates: Dial-up and leased line, 1200 to 19200; Radio, 1200 to 115200.

What power supply/voltage is needed at the Remote site? the Master site?
The Remote units require 9VAC power and the Master 12VDC. Data-Linc Group provides a wall mount transformer with all of its CCS9000 Remote and Master units.

For more information, visit our web site www.data-linc.com, contact Data-Linc Group at (425) 882-2206 Pacific Coast Time or email Data-Linc at info@data-linc.com.