DATA-LINC GROUP

FLC810E

For the 2.4 to 2.4835 GHz ISM band

Industrial Wireless Ethernet Modem

FastLinc™ Industrial Ethernet Wireless Modems are a high-speed, secure wireless solution using 2.4 GHz direct sequence technology. They are available in stand-alone Ethernet (FLC810E) and PCMCIA card (FLC800C) models.

FastLinc modems have a rated range of 5 miles with unobstructed line-of-sight, farther using repeaters and/or higher gain antennas. With an output power much higher than commercial IEEE 802.11b products, they provide longer outdoor range and broader indoor coverage.

The FLC810E includes wireless bridge mode for linking remote plant networks, access point mode for creating wireless hotspots within industrial plants and wireless connections between PLCs, HMIs, and Ethernet I/O systems. It can be configured as a wireless bridge repeater to extend range and overcome line-of-sight (LOS) obstructions. The high power FLC800C (PCMCIA card) allows for network communications of portable computers with a robust wireless connection.

FastLinc modems can coexist with Data-Linc's popular Smart Spectrum™ frequency hopping technology, permitting both high-speed and long range wireless networks ideally suited for utility SCADA systems.

The modems are easy to configure and trouble shoot with built-in diagnostics using a web-based interface. As with all Data-Linc products, support services such as pre-sale project consultation, post-sale tech support with PLC expertise and site survey planning assistance are part of the Data-Linc Group commitment.

Features

- Provides high-speed wireless Ethernet connectivity using the 2.4-2.483 license-free spread spectrum band
- High output power and excellent receiver sensitivity for outstanding in-plant RF coverage and outdoor range
- Rated range of 5 miles with unobstructed line-of-sight (farther using repeaters and/or higher gain antennas)
- Coexists with Data-Linc's Smart Spectrum™ SRM6210E frequency hopping technology for hybrid 900 MHz and 2.4 GHz RF SCADA systems
- Wireless connections to PLCs, HMIs, Ethernet I/O systems and portable computers
- Compatible with WiFi and IEEE 802.11b compliant devices
- Functions as a wireless access point, wireless bridge or remote repeater
- Supports point-to-point, point-to-multipoint and peer-to-peer topologies
- Compact, flexible design with universal mounting including an optional DIN rail connector
- Web page (HTML) configuration and diagnostics
- Built-in data encryption and authentication for added security
- Factory or field configured for your application for trouble-free installation
- AC or DC powered

Applications

- Connect remote plant networks without monthly phone line charges
- Wireless SCADA communications for pump stations, well heads, pipelines, storage tanks, etc.
- Wireless Ethernet I/O to moving equipment (over head cranes, transfer cars, turntables, etc.)
- Portable computer communications for mobile HMIs and maintenance stations
- Wireless hotspots in industrial plants

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