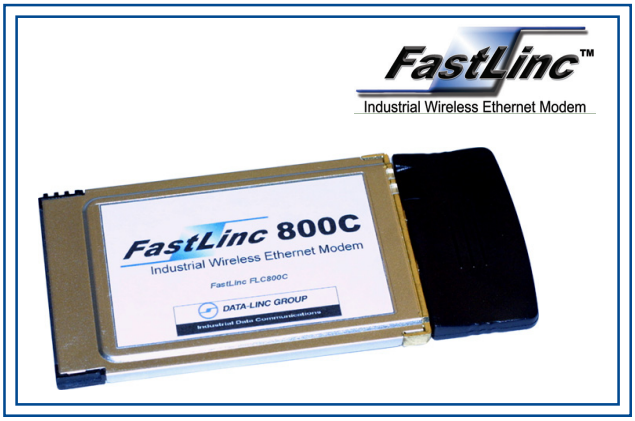
DATA-LINC GROUP

FastLinc™ 800C

Industrial Wireless PCMCIA Card for 2.4 GHz Band

Industrial Wireless PCMCIA Card



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.

The FLC800C Industrial Wireless PCMCIA Card provides much higher output power than commercially available IEEE 802.11b cards. This greatly increases the range in challenging RF environments such as industrial plants.

The FLC800C is ideal for portable computers used to access plant networks for HMI, SCADA, maintenance and PLC programming applications. When used in conjunction with the FLC810E modem, a robust wireless industrial network is created for outstanding coverage and high-speed performance.

The FLC800C includes a software utility for simple configuration and reports RF performance information. The software provides an easy way to use a portable computer for RF site surveys.

The modems are easy to configure and troubleshoot 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.

FLC800C Features

- **Provides high-speed wireless Ethernet connectivity using the 2.412-2.462 license-free spread spectrum band**
- **High output power (200 mW) and excellent receiver sensitivity for outstanding range**
- **PCMCIA card fits within most laptop computers**
- **Compatible with Wi-Fi and IEEE 802.11b compliant devices**
- **Built-in data encryption and authentication for added security**
- **Includes site survey software**

FLC800C 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**

FLC800C Specifications

Operating Frequency
License-free, 2.412-2.462 GHz

Transmitter

Range. Up to 800 feet (243.84 m)
Output Power. 200 mW (+23 dB)
Modulation. CCK, DQPSK or DBPSK
Spreading Code. Direct sequence
Channels. 11 (3 non-overlapping)
Occupied bandwidth. 22 MHz

Receiver

Sensitivity. 11 Mbps –89 dBm; 5.5 Mbps –91 dBm; 2 Mbps – 93 dBm; 1 Mbps –94 dBm

RF Data Transmission

Data Encryption. WEP+ (64 or 128 bit)
RF Data Rate. 1, 2, 5.5 or 11 Mbps

Operating Modes

Client adapter

Data Interface

Interface. PCMCIA
Data Throughput. 800 Kbps to 6 Mbps (dependent upon RF link quality)

Diagnostics

Software utility; (2) indicators (Power, Link Status)

Antenna

Types. Removable

Power

Power requirements. 5 VDC (from computer)

Operating Environment

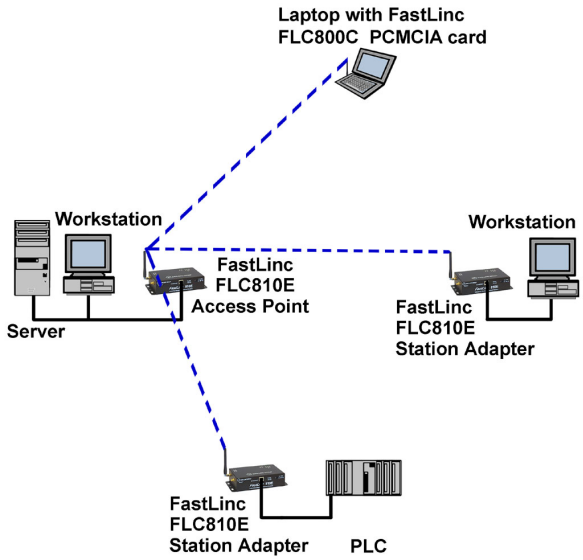
Standard Temperature.
32^0 to 122^0 F (0^0 to 50^0C)
Humidity. 0 to 95% non-condensing humidity

DATA-LINC GROUP

Corporate Headquarters
3535 Factoria Blvd. SE, Suite 100
Bellevue, WA 98006 USA
info@data-linc.com

Tel: (425) 882-2206
Fax: (425) 867-0865
www.data-linc.com

FLC800C Point-to-Multipoint System Diagram



About Data-Linc Group

For over fifteen years, Data-Linc Group has provided reliable communication solutions for industrial automation systems. Data-Linc Group, an alliance partner with most major PLC manufacturers including Rockwell Automation, Siemens, Schneider Electric, GE Fanuc, and Omron, as well as others, provides expert technical support and communications consultation. Data-Linc's industry proven RF technology has been successfully implemented in all major industries including automotive plants, consumer goods manufacturing/packaging, steel mills, mines, oil/gas refineries, paper mills, utilities and transportation systems. Its products are available worldwide. Data-Linc recently expanded its market with a line of wireless modems for the European Union.

Alliance Partners

Rockwell Automation Encompass™ Americas · Asia-Pacific Partner
Siemens Product Partner
GE Fanuc
Schneider Electric Building a New Electric World
OMRON

P/N 155-09907-001