

**New  
Winter 2011**

# DEVICELINC™ DLR310W

## INDUSTRIAL 802.11BGN WiFi ETHERNET MODEM

**INDUSTRIAL 802.11BGN WiFi ETHERNET 2.4 GHz MODEM**



The Data-Linc industrial WiFi DLR310W radio is part of the *DeviceLinc™* Family of short-range, low-cost industrial wireless modems. The DLR310W is ideal for mobile, rotating and temporary installations. Even when data is transferred to moving devices, the DLR310W maintains the wireless connection and provides reliable continuous communication without changing access points and without special firmware. The DLR310W clients on each cooperating moving device deliver uninterrupted data as a standard integrated feature. For distances up to 0.4 km, it replaces hard-wired Ethernet cable with a robust, reliable and maintenance-free wireless option that includes an internal antenna. Setup is fast and simple. Connect two units to their power source, simultaneously press and hold the “mode” button for five seconds, and the two units are configured and communicating.

### APPLICATIONS

- **Low-cost point-to-point Ethernet cable replacement**
- **Part of a medium range (up to 9 km LOS) multipoint setup with Data-Linc's *FastLinc* FLC830E as the longer-range Master**
- **Point-to-point Ethernet cable replacement (both in Ad-Hoc and Infrastructure mode)**
- **Wireless LAN client adapter in an Infrastructure setup**

### DLR310W FEATURES

- **Up to to 0.4 km (1/4 miles) Industrial 802.11bgn, WiFi for robust, wireless communication**
- **Roaming without interruption or lag in data transfer**
- **Built in antenna for cost-effective, quick installation**
- **Easy configuration via "hold-to-set" mode, or Web to access more advanced features**
- **Supports WEP, WPA, WPA2, TKIP, CCMP (AES) PEAP, LEAP security**
- **Configuration options include Profinet optimizations**
- **Wireless Ethernet Bridge, wireless LAN Client**

### CERTIFICATIONS/COMPLIANCE

**FCC/CFR 47 part 15**

**IC (Industrie Canada)**

**R&TTE Directive 1999/5/EC (Europe)**

EN 300 328 V1.7.1 (2006-10)

EN 301 489-1 V1.8.1 (2008-04)

EN 301 489-17 V1.3.2 (2007-06)

**EMC**

EN 61000-6-2 (2005)

**Safety Compliance**

EN 60950-1:2001 and/or IEC 60950-1:2001 (1st Edition)

EN 60950-1/A11:2004 + Corrigendum:2004

**1999/519/EC Council Recommendation**

EN 50401 (2006)

## DLR310W SPECIFICATIONS

### Operating Frequency

#### License-free, 2.4 GHz ISM band

R&TTE (Europe)  
FCC/CFR 47 part 15  
IC (Industrie Canada)

### Included.

Modem with internal antenna (17dBm); power source 12VDC power adapter with M12 connector; EU and, UK+US power plug converters; Ethernet cable with RJ45 and M12 connector; User Manual

### Wireless LAN Support

IEEE802.11b/g/n specification  
Regulatory domain support  
Roaming sequence list  
Range up to 500 m

### Infrastructure modes

Managed / Infrastructure (BSS)  
Unmanaged / Ad-hoc (IBSS)

### Configuration

Simple, press and hold button  
Web based configuration  
SNMP  
AT commands for advanced setup  
Profinet optimizations

### External input

9-30 V to trigger configurable event, e. g. roaming

### Power

**Power supply voltage:** 9-30 VDC

### RF Data Transmission

**Security:** Supports WEP64, WEP128, WPA-PSK, WPA2-PSK, TKIP, CCMP (AES), LEAP, PEAP

### Operational range

**Distance:** Up to 400 meters (>1000 feet) with built-in antenna and line-of-sight

### Operating modes

Wireless Ethernet Bridge, wireless LAN Client

### Connections

**Power.** M12

**Ethernet Interface:** M12 connector on modem (M12 to CAT5 cable included); 10/100BASE-T with automatic MDI/MDIX cross-over

### Protocols

TCP, UDP, LLDP, HTTP, ARP, DHCP Client / Server, DNS support, SNMP, User management and access control

### Indicators— Status LEDs

**Power, ))) RF, LAN, Link Quality** (4 levels)

### Operating Environment

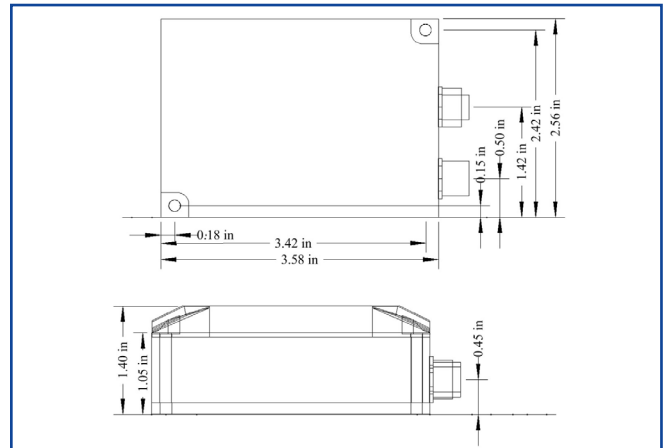
**Operating temperature:** -30 to +65 °C  
**Storage temperature:** -40 to +85 °C

### Enclosure

**Standard.** Plastic, IP65 waterproof  
**Dimensions.** 3.58 x 2.56 x 1.40 inches (9.0 x 6.5 x 3.56 cm);

**Weight.** 0.2 lb (0.09 kg)

## DLR310W DIMENSIONS



## ABOUT DATA-LINC GROUP

Since 1988, 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, paper mills, consumer goods manufacturing/packaging, steel mills, mines, oil and gas refineries, utilities and transportation systems. Data-Linc's line of industrial modems includes those for the European Union. Its wire and wireless products are available worldwide.

## ALLIANCES



## DATA-LINC GROUP

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