



Powerful Wi-Fi Network Link

Low power consumption

Overview

Campbell Scientific's NL240 is a powerful Wi-Fi network link interface that provides a wireless network connection to dataloggers and peripherals. It supports sophisticated networking capabilities, especially when used in PakBus

networks with PakBus devices. For example, with the NL240, multiple PakBus clients can be connected to a single datalogger at the same time.

Benefits and Features

- **)** Low power consumption
- Wi-Fi CS I/O bridging provides direct access to internet protocol capabilities of CR800, CR850, CR1000, or CR3000 loggers
- Powerful PakBus routing capabilities

- Serial server functionality for networking Campbell Scientific devices as well as third-party devices
- Provides IP connectivity for communication with LoggerLink smartphone app and LoggerNet PC software

Specifications

- > RoHS Compliant
- Power Connector: DC barrel
- Power Requirements: 7 to 20 Vdc
- Configuration: Device Configuration Utility over USB (Micro-B) or IP; Telnet console over IP
- RS-232 Port: DTE

Communication Rate

> RS-232 Port: 1200 to 115.2 bps

- > CS I/O Port: SDC 7, 8, 10 or 11
- Departing Temperature: -25° to +50 ℃
- Material: Aluminium case with black anodized finish
- Dimensions: 16 x 6.73 x 2.54 cm (6.3 x 2.65 x 1 in)
- **>** Weight: 177 g (6.3 oz)

> CS I/O Port: 9600 to 460.8k bps



WLAN

- > 802.11 bgn
- Antenna Connector: RPSMA
- Supported Technologies: IPv4, TCP, DHCP, APIPA, AutolP, Ping, Telnet, WPA, WPA2 w/TKIP or AES, WEP (open), PakBus, TLS

Power Consumption

- Maximum: 950 mW
- Typical, Always On: 600 mW idle, 670 mW communicating, 65 mW searching for out of range network

- > Topologies: infrastructure and ad-hoc
- Typical, Low Power Mode Enabled: 73 mW idle, 480 mW communicating, 50 mW searching for out of range network
- > Sleep: 16 mW

Ordering Information

Network Link Interface

NL240 Wi-Fi Communications Peripheral - shipped with

an SC12 cable for connecting to the datalogger's CS I/O port, and hardware for mounting to an enclosure backplate

Power Peripherals

One of the following is required to power the NL240 if the device is not connected to the datalogger's CS I/O port.

004248 AC/DC adapter that can power the NL240

independently from an AC power outlet.

006725 Field power cable allows the NL240 to be

powered from a 12 Vdc source.

Antennas and Antenna Cables

An antenna is required to use the NL240

009961 Unity gain (0 dBd), 1/2 wave whip, omni-

directional antenna, which features an articulating knuckle joint that can be oriented vertically or at right angles.

009962 Waterproof enclosure mount antenna.

Serial Cable

#10873 DB9 Female to DB9 Male Cable (1.82 m) - connects

the NL240 to the datalogger's RS-232 port.

