CAMPBELL SCIENTIFIC
WHEN MEASUREMENTS MATTER

COM9602
Iridium Short Burst Data (SBD) Modem Kit

Short Burst Data (SBD) Solution

Ideal for remote sites
Excellent global coverage

Overview

The COM9602 modem enables short burst data message transmissions from a remote Campbell Scientific datalogger via the Iridium network and the Internet. The COM9602 provides an RS-232 port for communication, along with power and control terminals. The COM9602 can be connected to the datalogger's RS-232 CS I/O or COM port.

Iridium Satellite Network

The Iridium satellite network consists of a constellation of 66 satellites situated in 6 planes in low-earth orbit. Each powerlane is populated by 11 satellites in polar orbits, giving the Iridium network excellent coverage in high latitudes (greater than 70 north or south) that equitorial satellites are often unable to reach. This configuration provides global data coverage, which supports communication with a station located anywhere on earth, as long as it has a clear view of the sky.

Pair with Data Services

Campbell Scientific Data Services offers customized solutions to assist with collection, hosting, storage, and processing data with the goals of simplifying the process for the client and providing ongoing support. For Short Burst Data, the available services start with the analysis of the Client's expected data volume and identifying the best plan for the application.

Benefits and Features

❯ Greatly reduced hardware costs

❯ Kit includes necessary accessories

❯ Open to use by anyone with an active account

❯ Flexible access to data compared to GOES

❯ LEDs to verify operation and transmissions - indicate power, network availability, and serial communication

Specifications

Power Supply

❯ 9 - 18 VDC, 12 VDC nominal

❯ <1 mA (quiescent)

❯ 45 mA (average idle)

❯ 190 mA (average SBD message transfer)

❯ 1.5 A (peak transmit)

Environmental

❯ Operating Temperature: -40°C to +70°C

❯ Operating Humidity Range: ≤ 75 %

Provides necessary connections to the Iridium 9602 modem

❯ RF Antenna connector

❯ One detachable 3 pin terminal block

❯ +12 volts, ground, power control

❯ One RS-232 DB-9 female connection for connection to datalogger

General

❯ COM9602 includes 1" on centre keyholes for mounting in an enclosure

❯ CE Compliant, ROHS Compliant