CAMPBELL SCIENTIFIC
WHEN MEASUREMENTS MATTER

CELL205

4G LTE CAT1 Cellular Module for AT&T

Simple to Use, Easy to Maintain

Low-power option for AT&T service

Overview

By using Campbell Scientific's external line of cellular modules, system integrators, OEMs, and large end users can avoid costly, time-consuming maintenance visits to remote devices around the world.

The CELL200 series of external cellular modules are 4G LTE cellular devices that provide serial or CS I/O connectivity to a number of cellular networks, including Verizion, AT&T, T-Mobile USA, Rogers, Bell, Telstra, and Telus. The networking and carrier used by the CELL200 series is determined by the model used and the SIM card inserted into the device.

The CELL205 has very low power consumption when compared to other cellular modems: 14 mA at idle, 39 mA when active, and 200 µA when in low power mode.

When coupled with Campbell Scientific data services, these devices are ready for you to use out of the box. There is no need for you to work with cellular carriers for provisioning and experience the accompanying hassle.

The CELL205 is part of the CELL200 series of modems that includes:

- CELL205 for use with AT&T
- CELL210 for use with Verizon
- CELL215 for use in EMEA countries
- CELL220 for use in Australia

Note: The CELL205 does not ship with a SIM card unless the cellular modem was provisioned with/for Campbell Scientific cellular data services; the SIM card is provided by the carrier when signing up for service. For more information, visit the Cellular Data Services page.

Benefits and Features

- Includes everything needed for use with a Campbell Scientific data logger or smart sensor
- Low power consumption for solar-powered sites
- Easy integration, setup, and installation
- No moving parts and low maintenance
- Compatible with modern Campbell Scientific data loggers
- Compatible with Edlog-era data loggers in serial server mode
- 4G LTE networking
- Ready for out-of-the-box use with Campbell Scientific data services

Specifications

Host Interface	› CS I/O communications port, DB9 male › USB version 2.0 with micro-B connector › RS-232 serial port, DB9 female
RF Connectors	2 SMA antenna connectors (primary and diversity)
Operating Temperature Range	-40° to +80°C
SIM Interface	3FF
Dimensions	13.46 x 8.1 x 2.86 cm (5.3 x 3.19 x 1.13 in.)
Weight	215.5 g (7.6 oz)

Cellular WAN

Network Technology	4G (with automatic fallback to 3G)
Carrier Approval	AT&T, T-Mobile USA, Rogers
LTE	1900(B2), AWS(B4), 700(B12)
WCDMA	1900(B2), AWS(B4), 850(B5)

Data Speeds

LTE	› Max 10 Mbps (download) › Max 5 Mbps (upload)
WCDMA	› Max 384 Kbps (upload) › Max 384 Kbps (download)
GSM EDGE	› Max 296 Kbps (download) › Max 236.8 Kbps (upload)
GSM GPRS	› Max 107 Kbps (download) › Max 85.6 Kbps (upload)

Power Consumption

Low Power Mode	200 µA
Idle	14 mA
Active	39 mA

Radio Output and Sensitivity

Output Power	23 dBm on LTE
Sensitivity Range	-99 to 102 dBm (10 M)

For comprehensive details, visit: www.campbellsci.com/cell205

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