



Rugged, Reliable, and Ready for any Application



Campbell Scientific supports satellite telemetry through various systems. Satellite telemetry offers an alternative for remote locations where phone lines or RF systems are impractical. Transmitters,

antennas, interface cables and software, as well as system considerations (e.g., coverage available, transmit windows, fees, and restrictions) vary between satellite systems.

MAJOR SPECIFICATIONS

		Transmission Area	Communication Rate or Throughput	Current Drain @ 12 Vdc	Service Requirements
TX321 Transmitter for GOES or Meteosat		GOES: Western Hemisphere Meteosat: Europe	GOES: 300 or 1200 bps Meteosat: 100 bps	Idle: < 5mA During GPS Fix: < 50 mA Transmit: < 2.6 A	GOES: formal permission from NESDIS. (http://noaasis.noaa.gov/DCS/). Meteosat: set up an account (www.eumetsat.int)
ST-21 Argos Satellite Transmitter		Worldwide	Latitude dependent. From 448 average bytes per day at the equator to 1792 average bytes per day at the poles.	1.1 mA quiescent 375 mA transmitting	Must receive formal permission from Service Argos and pay a fee. Data must be used for environmental purposes.
IRIDIUM9522B Satellite Modem and Interface Kit		Worldwide (including poles, oceans and airways)	19.2 kbps	Operating: 333 mA Standby: 125 mA	Needs a SIM card and must pick a service provider and pay a fee.
HUGHES9502 Inmarsat BGAN Satellite IP Terminal		Worldwide between +70° and -70° latitude	115.2 kbps	Transmit: < 1.7 A peak Narrow beam without transmit: 333 mA Idle (regional beam): < 84 mA Sleep (wake on Ethernet packet): < 0.8 mA Off, GPIO sleep pin control: < 0.3 mA	Needs a SIM card, a BGAN/M2M service agreement with an Inmarsat service provider. The service provider will charge a fee.

