

Positioning Data Link

Datasheet



The PDL Sitecom™ is a rugged, reliable radio modem that enables high-precision GPS locating and tracking—machine control—for bulldozers, tractors, and other high-value assets used in construction, agriculture, and other applications.

The Sitecom radio incorporates unique features to guarantee reliable and cost-effective operation in demanding construction environments. The rugged unit features an enclosure and design that allow direct mounting of an omni-directional flexible antenna and RS-232 interface for connectivity to the GPS receiver and power supply. Two unique mounting options are offered: a removable mount using magnets and a permanent plate, both specially designed to isolate the Sitecom from vibration and shock that could degrade its performance.

Sitecom is approved for operation in the United States and certified for use in Europe and other countries in the world. It is also compatible with most GPS systems and heavy machine equipment.

SITECOM™

High Performance Data Link

Designed for Machine
Control Applications

Environmentally Secure

Completely sealed
Waterproof
Corrosion Resistant

Fast

9600 bps (GMSK) and
19,200 bps (4LFSK) raw data rates

Easy-to-Use

Magnetic or Permanent
Mounting Options
Vibration-Dampening Design
Direct TNC Antenna Mounting.

Compatible with GPS Systems Worldwide

Complete Wireless Solutions Available

Sitecom™	
General Specifications	
DTE - DCE Interface	3 Wire, RS-232, 38.4k Baud Maximum
User Interface	RX LED - RF Carrier Detect TX LED - Transmitter Active PWR LED - Unit is Powered
Power	
External	9 – 16 VDC
Power Consumption (TX)	5-11 Watts depending on RF Power
Power Consumption (RX)	2.2 Watts
Antenna	
External	50 Ohm, NMO
Modem Specifications	
Link Rate/Modulation	19,200 bps/4 Level FSK (25 kHz) 9600 bps/4 Level FSK (12.5 kHz) 9600 bps/GMSK (25 kHz) 4800 bps/GMSK (12.5 kHz)
Link Protocols	Transparent, Packet Switched, Digipeater, TRIMTALK™
Forward Error Correction	Yes
Radio Specifications	
Frequency Bands	Refer to price list for available frequency bands.
Frequency Control	Synthesized 12.5 kHz Resolution ±2.5 ppm Stability
RF Power Select	Factory Set
RF Transmitter Output	0.5 – 2 Watts
Sensitivity	-110 dBm BER 10 ⁻⁵
Adjacent Channel Selectivity	>65 dB (25 kHz), >55 dB (12.5 kHz)
Type Certification	All models are type accepted and certified for operation in the U.S. and Canada. For detailed information concerning your country's type certification, please contact your sales representative.
Environmental Specifications	
Operating Temperature	-22° to +140° F (-30° to +60° C)
Storage Temperature	-67° to +185° F (-55° to +85° C)
Vibration	8g RMS, 20-2000 Hz Random Vibrations
Shock	Operational ±40g, 11 msec Survival ±75g, 6 msec
Enclosure	IEC 144/855420 I.P. 66 Watertight and Dustproof
Mechanical Specifications	
Dimensions	8.35" Length x 1.63" Diameter (21.21 cm Length x 4.1 cm Diameter)
Weight	1.10 lb (0.50 Kg)
Data/Power Connector	8 Pin Circular Waterproof IP67

Mounting Options



Front View
With Permanent
Mounting Plate



Side View
With Permanent
Mounting Plate



Front View
With Magnetic
(Removeable)
Mounting



Side View
With Magnetic
(Removeable)
Mounting