

Stellar DS100

Two-way satellite communicator

The DS100 is a two-way satellite communicator for use with the ORBCOMM Low-Earth Orbit (LEO) satellite network. The DS100 specifically targets machine-to-machine (M2M) applications that require reliable and low-cost data communications from anywhere on the planet, including those in the most remote locations.

The DS100 was developed as a robust satellite transceiver, targeted to satisfy the need for “modem only” applications. The DS100’s small footprint, efficient power consumption, globally competitive pricing, world-class design and performance make it ideal for a variety of applications including automatic meter reading (AMR), asset tracking, oil and gas monitoring, security and other applications requiring a reliable, low-cost data communications connectivity.



CHARACTERISTICS



- **General** Dimension: 102 x 72 x 15 mm (maximum)
Configuration: Printed Circuit Board
- **Transmit Power** Transmit Power (2 or 5 Watts (data/power connector jumper setting))
- **Transmit Frequency** Transmit Frequency 148 - 150.05 MHz
- **Receive Frequency** Receive Frequency 137 to 138 MHz
- **Dynamic Range** Dynamic Range 40 dB minimum
- **Sensitivity** Sensitivity Minimum BER: E-5 @ -118 dBm
Typical BER: E-5 @ -120 dBm
- **Application Interfaces** Main Serial: RS232 (3-wire: TX, RX, CD)
SPI Serial: TTL (5-wire: TX, RX, CLK, CS, DA)
- **Power Requirements** Input Voltage: 8 to 16 VDC
Transmit: 2.0 A max @ 12 VDC
Receive: 77 mA nominal @ 12 VDC (with LEDs switched off)
- **Environmental** Temperature: -40°C to +85°C (operating)
Shock & Vibration: SAE J1455
Radiated Emissions: EN 301 721
- **RF Connector** VHF: MCX Female, 50 Ω
- **Data Connector** Molex 16 pin Picoflex series part #90814



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