

Stellar DS400

Satellite network and GSM cellular network

The DS400 combines the best of two worlds; the ORBCOMM Low-Earth Orbit (LEO) satellite network for best coverage and GSM cellular network for data intensive applications and lower latency. Designed by Stellar and built around Delphi Electronics and Safety's DS100, the DS400 specifically targets the Heavy Equipment and Transportation markets where the need for global coverage and occasional high volume messaging is a must.

The DS400 is capable of two-way satellite and cellular messaging. Arbitration between the ORBCOMM and GSM networks is done at the unit level and is based on network availability as well as other user defined parameters. Built in to the DS400, along with a robust DS100 satellite communicator, is a GPS engine, a high performance GSM modem, power and I/O board as well as an optional CAN bus.

Globally competitive pricing and world-class design and performance, make the DS400 an exceptional product for the transportation and heavy equipment industries.



CHARACTERISTICS

- **General** Dimension: 229 x 83 x 64 mm
Configuration: Sealed Case
- **Transmit Freq. ORBCOMM** 148 to 150.05 MHz
- **Receive Freq. GSM QB** 850, 900, 1800, 1900 Mhz
- **Transmit Power ORBCOMM** 5 Watts
- **Transmit Power GSM QB** Power Class 4 (2 Watts)
Power Class 1 (1 Watt)
- **Receive Freq. ORBCOMM** 137 to 138 MHz
- **Receive Freq. GSM QB** 850, 900, 1800, 1900 Mhz
- **GPS** GPS 16 Channel Receiver < 10 Meter accuracy
Accuracy: Horizontal: <6 meters (50%), <9 meters (90%)
Altitude: <11 meters (50%), <18 meters (90%)
- **Sensitivity ORBCOMM** Minimum BER: E-5 @ -118 dBm
Typical BER: E-5 @ -120 dBm
- **Application Interfaces** Main Serial: RS232 (4-wire: TX, RX, CD, DTR)
CAN Bus: 2 wire, J1939 -11, 11 Mbit/s (Optional)
Input: 2; 0 to 4 Volts (Low), 4 to 32 AC or DC (High)
Analog Inputs: 2; 0 to 24 Vdc; 8 Bit Resolution (Configurable)
Input Voltage: 9 to 32 VDC
- **Power Requirements** 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) SAE J1455
Shock, Vibration, Dust, Humidity, Rain: MIL STD 810
Pressure Wash: IP 67
Radiated Emissions: EN 301 721
- **RF Connectors** VHF: FAKRA SMB A Code key (black color), keyed, 50 Ω
GPS: FAKRA SMB C Code key (blue color), keyed, 50 Ω
GSM: FAKRA SMB D Code key (bordeaux color), keyed, 50 Ω
- **Power and Data Connector** Deutsch Connector P/N DT06-12SA-B012



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