

Satellite Gateway

A Communications Module



The Satellite Gateway is a mobile satellite communications device which transmits and receives data over the Iridium satellite network via Iridium SBD Services.

The Satellite Gateway communicates over an RS-232 connection to external electronic modules. Increased power conditioning and transient protection are incorporated to enhance the functionality of the base Quake Global Q9612 transceiver. The mechanical design ensures performance in the most demanding environmental conditions.



Specifications

Machine Interface	Designed for 12V or 24V systems 9V to 32V operating voltage RS-232 interface to external modules
Communication	Quake Q9612 transceiver Iridium SBD Service
Electrical Safeguards	Transient protection per JDQ53.3 (ISO 7637-2) ESD Protection: 8 kV contact, 25 kV air discharge Short to battery/ground protection on all primary connector pins Reverse battery, load dump, jump start protection
Mechanical	Metallic IP67 enclosure Header Connector: Molex CMC 48-way Antenna Connector: 50 ohm female TNC Dimensions (mm): 210 x 205 x 50 Weight: 1.2 kg
Environmental	-40°C to +75°C operating Shock: 85G Storage Humidity: 168 hr +85°C @ 85% RH Vibration: 9.6 G—5 Hz to 2 kHz Life tested from -40°C to +65°C @ 70% relative humidity Dust, immersion, high-pressure spray tested
Regulatory	US/Canada FCC (complete device tested to Part 15b) Industry Canada PTCRB, AT&T certification Europe CE, E mark Extensive list of additional country approvals

