SATRAD G2

Allow work crews, drivers, search and rescue teams, firefighters, and others to stay in touch and get their jobs done virtually anywhere in North America.

Providing two-way communications capability, SATRAD-G2 allows one user to talk to multiple users, or users can conduct private one to one conversations. The SATRAD service is a cost-effective alternative to terrestrial radio communications systems.

The basic SATRAD G-2 system consists of a transceiver unit, handset, an auto-tracking antenna and a power cable. The SATRAD network acts much the same as a radio tower, covering the entire continent transmitting signals to and receiving signals from subscribers on the ground.

In addition to “push to talk”, SATRAD transceivers support telephony. Users may enter the telephone number on the digital handset and commence the call. The call is then routed via the satellite hub to the called telephone subscriber.

SATRAD users may choose to subscribe to a number of ancillary services including; GPS tracking and mapping. The tracking service permits a dispatch center to track the location of field units (typically emergency services personnel). GPS co-ordinates are updated each time a field unit makes a transmission. There are a number of mapping services available, your Network Innovations representative will be pleased to assist you in identifying which services are best suited for your application and operational requirements.

SATRAD users establish talk groups, sets of users who share a common communications channel. Each SATRAD-G2 terminal can support up to 15 talk groups. Users can belong to more than one talk group, each talk group can include as many as 9,999 members.
### Features

| **Handset** | Dual service handset  
46 mm colour display with brightness adjustment  
Tough PC-ABS housing  
Full numeric keypad  
Noise cancelling microphone  
Built in privacy mode earpiece  
Wear free hook function |
|---|---|
| **Transceiver** | Compact form factor  
RJ-45 Handset Port  
RJ-45 Ethernet Port (firmware updates)  
DB9 Serial Port - GPS / Interconnectivity  
External Speaker Port Power connector  
Antenna connector |
| **Antenna** | Low Profile 2 Axis tracking antenna  
Maritime 3 Axis tracking antenna  
16 Channel GPS receiver |

### Options

| **Control Head** | Control head incorporates a handset connector, powerful 20 watt audio amplifier with a 3.5 mm audio connector, volume control and power switch. Control heads are supplied with a powerful 4 inch speaker complete with mounting bracket. |
| **DC Power Conditioner** | Many late model vehicles have economised on the gauge of wire supplying power to the various connection points in the vehicle. This creates unwanted voltage drops due to wire resistance. The DC power conditioner electronically regulates power to provide stable voltage to the transceiver unit |
| **AC Power Supply** | Converts 110 VAC to stable 12 Volt nominal DC power |

### Specifications

| **Communication Modes** | Dispatch Radio half-duplex digital  
Telephony full duplex digital |
| **Security** | IMBE codec  
Digital coding and scrambling  
Dynamic channel allocation |
| **Frequencies** | Transmit 1626.5 - 1680.5 MHz  
Receive 1525.0 - 1559.0 MHz  
Channel spacing 6 KHz |
| **Handset** | Microphone Frequency Range - 200 Hz - 4 KHz at - 10 dB  
Microphone Sensitivity 41 mV/PA (-28 dBV/Pa +- 3 dB)  
Earpiece Frequency Range 200 Hz - 7 kHz at - 10 dB |
| **Weights and Dimensions** | Transceiver - 363 gm (0.8 lbs)  
165 X 28 X 142 mm (6.5 X 1.1 X 5.6 inches)  
Antenna - 2 Kg (4.6 lbs) 249 (D) X 99 (H) mm (9.8 (D) X 3.9 (H) inches)  
Handset - 246 gm (8.6 oz) 30 X 50 X 165 mm (1.2 X 2 X 6.5 inches) |
| **Humidity** | 98% RH at 38 C (100 F) |
| **Operating Temperature** | Antenna - -30 C to + 43 C (-22 F to 109 F)  
Transceiver -30 C to +55 C (-22 F to +131 F) |
| **Dust** | In accordance with SAE J1455 section 4.7 |
| **Rain** | Precipitation rate of 51 mm (2 inches) per hour |
| **Power** | 12 Volts DC Nominal |

sales@networkinv.com  
www.networkinv.com