

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."

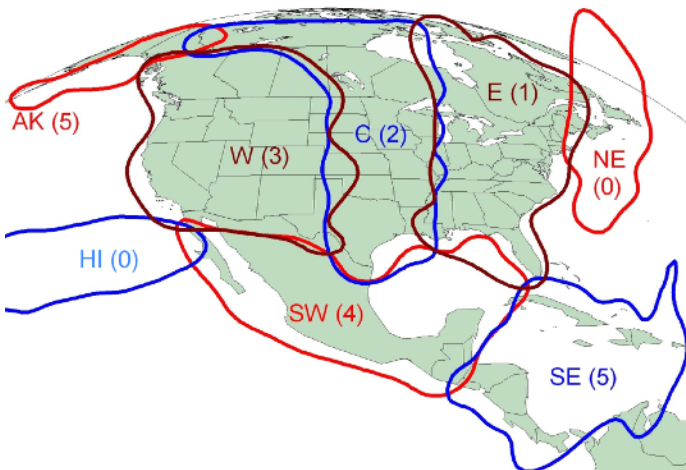
Providing two-way communications capability, SATRAD-G2 allows one user to talk to multiple users, or users can conduct private one to one conversations. The SATRAD service is a cost-effective alternative to terrestrial radio communications systems."



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 - 1660.5 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