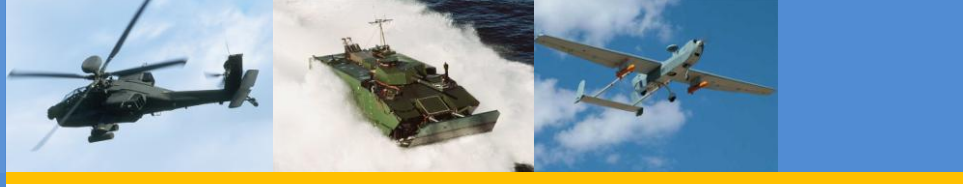


IRIDIUM™ HANDHELD SATELLITE TRACKER



- ✓ Totally self-contained including batteries and antennas
- ✓ Programmed for either DoD or commercial gateway
- ✓ Ultra-low power consumption (<20µA at stand-by)
- ✓ 256-bit AES encryption
- ✓ Real-time two-way communications allowing remote configuration from a command center workstation
- ✓ Real-time GPS reporting
- ✓ Pole-to-pole global coverage
- ✓ Weighs less than 10 ounces
- ✓ Volume of 4.3" x 2.2" x 1.0"
- ✓ Easy to install
- ✓ Rechargeable battery
- ✓ 911 alert switch
- ✓ LEDs displaying satellite status, and successful transmissions
- ✓ Integrated motion sensor
- ✓ USB interface
- ✓ 16-channel GPS receiver with -158 dBm sensitivity

IRIDIUM™ HANDHELD SATELLITE TRACKER: nTRACKER

The nTracker is a handheld, pocket-size, low-cost, satellite tracker designed to operate with the Iridium low-Earth orbit satellite network. The nTracker measures 4.3" x 2.2" x 1.0", weighs less than 10 ounces.

The nTracker is designed with ultra-low power consumption electronics. At stand-by mode, the unit draws less than 20µA in the range of 2.7VDC to 5.5VDC input. Therefore, with a 2A-Hr Li-battery, it is capable of delivering uninterrupted service of up to two years with two reports per day.

The nTracker is equipped with an LCD screen and keyboard allowing transmission of pre-defined text or free text. It has an internal motion sensor allowing detection of man-down scenario.

The nTracker can send either a standard or a 256-bit AES encrypted GPS report at a pre-programmed interval ranging from once every four seconds to once every seven days. The interval can be changed remotely while the unit is in the field.

The nTracker has a 911 button to alert the recipient of an emergency situation as well as to indicate proper operation of the tracker. It has three LEDs providing the status of power input, message waiting and emergency transmission.

HANDHELD IRIDIUM TRACKER
POWERED by the IRIDIUM NETWORK



IRIDIUM™ HANDHELD SATELLITE TRACKER



- ✓ Pocket-size, self-contained satellite tracker
- ✓ Ultra-low power consumption
- ✓ AES 256-bit encryption both transmit/receive
- ✓ Two-way communications
- ✓ Real-time reporting
- ✓ Truly global coverage

Specifications

Mechanical

Dimensions:	4.30" L x 2.30" W x 1.00" D
Weight:	~10 Oz
I/O Interface:	USB
Cooling:	Convection
Enclosure:	Aluminum (hard-plastic is available for light-weight version)

Electrical

Input Voltage Range:	2.7VDC to 5.5VDC
Input Nominal Voltage:	4.0VDC
Power consumption during standby:	less than 20µA @ 5.0VDC
Power Input Type:	External DC power or internal battery

Iridium RF Board

Operating Frequency:	1616 to 1626.5 MHz
Link Margin Downlink:	13 dB average
Link Margin Uplink:	7 dB average
Average Power Transmission:	1.6 W

GPS Receiver

Receiver Type:	ANTARIS 4, 1575.42 MHz (L1), 16-channel, C/A code
Accuracy:	2.5 m CEP
Update Rate:	4 Hz
Start-up Times:	< 3.5 sec hot start, 33 sec warm start and 34 sec cold start
Sensitivity:	-158 dBm

Environmental

Operating Temperature:	-22°F to +140°F (-30°C to +60°C)
Operating Humidity:	< 75% RH