THALES
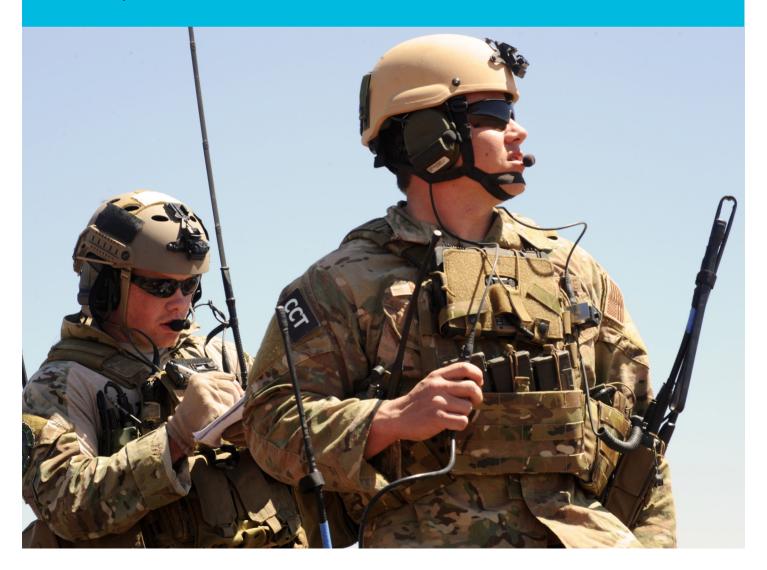
> LUA scripting language
> Bluetooth 4.0 (BLE)
> AES 256-bit encryption
> Latest SiRf 4 GPS
> USB & RS232 Interface
> Internal 2.5Ah battery

ClearWatch™ Mission Module

FOR THE AN/PRC-148 RADIOS

ClearWatch™ Mission Module

FOR THE AN/PRC-148 RADIOS

The ClearWatch™ Mission Module for the AN/PRC-148 radio adds secure digital Position Location Information (PLI) directly from the dismounted user for real-time situational awareness. The ClearWatch Mission Module is based on a powerful, small, customizable, self-contained Iridium tracker. It transmits re-time positioning information, SOS emergency alerts and other specialized information. By the utilizing the Iridium network, ClearWatch can track any asset, anywhere on earth, offering truly 100 global coverage and low latency through its Low Earth Orbit (LEO) configuration. The ClearWatch takes advantage of advanced, customized behaviors through the power of LUA scripting*. LUA provides controls over hardware functions and its software integration with other products.

TECHNICAL SPECIFICATIONS

Physical Parameters
> Internal dimensions:
>> Height 1.77 inches (45 mm)
>> Width 1.77 inches (45 mm)
>> Depth 1.34 inches (34 mm)
>> Weight ?????

Interfaces
> DC Power (4.5V to 40V DC) @ 1A max
> USB Interface
> RS232 Interface
> 2 Relay Outputs @ 2A
> 2 Analog Inputs (0V to 30V DC)
> Optional SMA antenna connector

Communication
> UART - NMEA (Default)

NMEA message Switchable
> GGA, RMC, GSA, GSV, VTG, GLL, ZDA

Channels
> 48

Correlators
> ~ 400,000

Frequency
> LI - 1,575 MHz

Sensitivity
> Tracking: - 163 dBm
> Navigation: - 160 dBm
> Aquisition (cold start): - 148 dBm

Position Accuracy
> < 2.5 m CEP (autonomous)
> < 2.0 m CEP SBAS (horizontal)

Time To First Fix
> Hot Start: < 1 s, Warm Start: < 32 s
> Cold Start: < 35 s

LUA Scription

LUA scripting provides powerful and customizable behaviors for the ClearWatch.

Examples:
> Behavior monitoring and transmission using accelerometer
> External interface to additional equipment
> Data logging and queued transmissions
> Lone worker monitoring and lack of movement monitoring
> Customized control of LED's
> Customized software applications over Bluetooth
> Custom message formats and full protocol control
> Geofencing behavior and alarm management

> Specifications are subject to change without notice.