



THALES

Thales Defense & Security, Inc.

2026 Products



22605 Gateway Center Drive
Clarksburg, MD 20871

CAGE Code 23386

AN/PRC-148E-V3 Spear Radio

TH125 (20M) Single Channel Handheld Radio



The AN/PRC-148E-V3 is a combat-proven handheld radio that is the smallest, lightest, tactical handheld radio covering the 30–512 MHz plus the SATCOM L-band frequency ranges. The software defined radio supports a wide variety of tactical Line of Site and SATCOM waveforms providing interoperability with a full range of legacy tactical radios. The suite of waveforms available is the result of over 15 years of development and its programmable cryptography supports the requirements of the National Security Agency's (NSA) Crypto Modernization program. The AN/PRC-148E-V3 Spear features simple to use human machine interface — minimize training requirements, enable rapid fielding, and provide the reliability that Warfighters have trusted for many years.

The SPEAR V3 Radio is designed to meet NSA's Crypto mandate 2 for SILVERLINING and shall be NSA High Assurance certified in compliance with the Tactical Secure Voice Cryptographic Interoperability Spec (TSVCIS). The radio features integrated LTAC capability. Planned future upgrades include incorporating support for both the SATCOM Integrated Waveform (IW) w/ Tactical Targeting Network Technology (TTAM) further expanding the radio's versatility and interoperability. This radio will be upgradeable to SATURN Ed 4 and upgradeable to incorporate additional LPI/LPD and Anti Jam Waveforms in the future.

ITAR Controlled

Technical Specifications

Physical Parameters

Length: 8.50 inches (21.59 cm) (with battery attached, excluding antennas)

Width: 3.2 inches (8.13 cm)

Depth: 1.15 inches (2.92 cm)

Weight: 1.24 pounds — Radio and Battery (571 g)

Environmental Specifications

Operating Temperature: -31° to +55° C

Storage Temperature: -33° to +71° C

Immersion: 20M

Waveforms/Modes of Operation Dependent on Configuration of Radio

MIL-STD-188-241-1/-2
(SINCGARS — Standard, FH2 EOM, FH3)

MIL-STD-188-182B and 184A

LTAC L-Band SATCOM

HAVEQUICK I and II ANDVT (LPC-10, MELP)

AM/FM VULOS

Advanced Special Communications
Mode (ASCM)

Project 25

Over-The-Air-Cloning (OTAC)

Situational Awareness

Retransmission

AM Swept Tone Beacon

Narrowband Channel

Frequency Range: 30 MHz – 512 MHz,
1 MHz; LTAC -1626.5 MHz – 1660.5
MHz TX; 1525 MHz – 1559 MHz RX

Transmit Power: 2 watt in LTAC; 5 watt
30 – 512 MHz, 10 watt in SATCOM







Step Size: 5 kHz and 6.25 kHz

Channel Bandwidth: 5 kHz, 12.5 kHz,
25 kHz (8.33 kHz future waveform)

| Part Number | System Description | NSN # |
|-------------------|---|-------|
| PRC7348-ACSB-SOC4 | Spear V3 Radio Kit, 20M BFT LTAC Black, SOCOM | |
| PRC7348-ABSB-INT | Spear V3 Radio Kit, 20M non-BFT LTAC Black | |

| Part Number | Accessory Description | NSN # | Category |
|-----------------|--|-------|----------|
| ✓ ✓ 4103431-501 | Unit Assembly, Spear 20M BFT LTAC | | RT |
| ✓ ✓ 3402691-1 | Quick Reference Guide, Spear V3 | | Spares |
| ✓ ✓ 84507-IETM | AN/PRC-148E(v)3 OPR and Field Lvl Main Manual | | |
| ✓ 84513-IETM | AN/PRC-148E V3 OPS BFT Addendum | | |
| ✓ ✓ 1600995-1 | Antenna Broadband 30-512 MHZ Handheld 20M | | Antenna |
| ✓ ✓ 4103117-501 | Battery Assembly, 3-Cell | | Battery |
| ✓ 4103431-502 | Unit Assembly, Spear 20M, Non BFT, LTAC | | RT |
| ✓ 3101156-501 | Hold Up Battery | | |
| ✓ 16000966-1 | Holster | | |

Accessories

| Part Number | NSN Number | Accessory Description | |
|-------------|------------|------------------------------|---|
| 1600966-1 | | Holster | <i>Photo Not Available</i> |
| 4103117-501 | | Battery |  |
| 3501098-501 | | non-locking fill/audio cable |  |
| 3501099-501 | | locking fill/audio cable |  |
| 3501100-501 | | 12 pin to USB A cable |  |
| 3501101-501 | | 19 pin to USB A cable |  |
| 3501102-501 | | 12 pin to Glen air cable |  |
| 1600713-28 | | GPS cable | |
| 1600713-29 | | Black USB cable | |
| 1600995-1 | | 30-512 MHz antenna | |
| 1600865-28 | | Invisio PTT cable | <i>Photo Not Available</i> |
| 812111-001 | | TEA PTT cable | |
| 1600972-1 | | LTAC antenna | |

Accessories

| Part Number | NSN Number | Accessory Description |
|-------------|------------|-----------------------------|
| 1100849-505 | | UBC charger w/Spear cups |
| 1100771-502 | | UBC lite w/out CWB charging |
| 1100771-501 | | UBC lite w/ CWB charging |
| 3500755-501 | | KVL cable |

Capabilities

Key Features

- > Thales SPEAR line are Smallest and Lightest, Single Channel Handheld Radio Available
- > Radio over IP agnostic with small form factor MANET radios
- > LTAC enabled provides commercial SATCOM capability
- > Type-1 Certified Programmable Encryption Engine (AIM)
- > 20M Immersible
- > Simple, Intuitive HMI
- > 256 Programmable Presets
- > Rechargeable Lithium-Ion 3.5 Ah
- > Compliant with the Universal Battery Charger (UBC) Family of Tactical Chargers

Brandon Cole

Senior Director, Business Development
Communications Systems

brandon.cole@thalesdsi.com

C: 240.550.4319



Specifications are subject to change without notice.

Thales Defense & Security, Inc.

22605 Gateway Center Drive | Clarksburg, MD 20871

TF: +1.800.914.0303 | P: +1.240.864.7643

solutions@thalesdsi.com | www.thalesdsi.com

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