



THALES

Thales Defense & Security, Inc.

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 and SATCOM L-band frequencies. The software defined radio supports a wide variety of tactical Line of Site (LOS) 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 features a simple-to-use human-machine interface that minimizes training requirements, enables rapid fielding, and provides the reliability that Warfighters have trusted for many years.

The AN/PRC-148E-V3 is designed to meet NSA's Crypto mandate 2 for SILVERLINING and is NSA High Assurance certified in compliance with the Tactical Secure Voice Cryptographic Interoperability Specification (TSVCIS). The radio features integrated LTAC capability. Planned future upgrades include support for both the SATCOM Integrated Waveform (IW) with Tactical Targeting Network Technology (TTNT), further expanding the radio's versatility and interoperability. This radio will be upgradeable to SATURN Ed 4 and additional LPI/LPD and anti-jam waveforms in the future.

Capabilities

Key Features

- > Thales Spear family of radios present the smallest and lightest, single channel handheld radio available
- > Radio over IP agnostic with small form factor MANET radios
- > LTAC-enabled for commercial SATCOM capability
- > Type 1 certified programmable encryption engine (AIM)
- > 20M immersible
- > Simple, intuitive HMI
- > 256 programmable presets
- > Rechargeable Lithium-Ion 3.5 Ah
- > Compatible with the Universal Battery Charger (UBC) Family of Tactical Chargers

Technical Specifications

Physical Parameters

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

Width: 3.20 inches (8.13 cm)

Depth: 1.15 inches (2.92 cm)

Environmental Specifications

Operating Temperature: -31 °C to +55 °C

Storage Temperature: -33 °C to +71 °C

Immersion: 20M

Waveforms/Modes of Operation Configuration Dependent

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

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

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

Accessories

Part Number	NSN	Accessory Description
1600966-1		Holster
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 Glenair cable
1600713-28		GPS cable
1600713-29		Black USB cable
1600995-1		30-512 MHz antenna
1600865-28		Invisio PTT cable
812111-001		TEA PTT cable
1600972-1		LTAC antenna

Accessories

Part Number	NSN	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
1600842-13		High capacity battery
		Single channel headset
1600781-1		AV2055-3T SATCOM antenna
1600786-1		AV2125 SATCOM antenna
1700858-24		LTAC waveform option
1700858-7		P25 waveform option

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Specifications are subject to change without notice.

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