



THALES

Thales Defense & Security, Inc.

Products



22605 Gateway Center Drive
Clarksburg, MD 20871

CAGE Code 23386

AN/PRC-148E-V1 Spear Radio

TH125 (20M)

Single Channel Handheld Radio



The AN/PRC-148E-V1 is a compact and lightweight tactical handheld radio operating across the 30–512 MHz frequency range. It offers compatibility with multiple Line of Sight (LOS) and SATCOM waveforms, ensuring interoperability with existing legacy radio systems. Leveraging over 15 years of development, the AN/PRC-148E-V1 incorporates programable cryptography designed to meet NSA Crypto Modernization standards. The AN/PRC-148E-V1 Spear offers an intuitive human-machine interface, simplifying training, facilitating rapid deployment, and delivering the reliable, mission-critical performance that Warfighters have depended on for years.

Capabilities

Key Features

- > Smallest and Lightest, Single Channel Handheld Radio Available
- > Type 1 Certified Programmable Encryption Engine (AIM)
- > 20M Immersible
- > Simple, Intuitive HMI
- > 256 Programmable Presets
- > Rechargeable Lithium-Ion 3.5 Ah
- > Combatable 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: 1.10 inches (2.79 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)

MIL-STD-188-181C, -182B, -183B (SATCOM IW)

HAVEQUICK I and II

ANDVT (LPC-10, MELP)

AM/FM

Project 25

Over-The-Air-Cloning (OTAC)

Situational Awareness

Retransmission

AM Swept Tone Beacon

Frequency Range: 30 MHz–512 MHz

Transmit Power: 5 W at all frequencies, 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)

Accessories

Part Number	NSN	Accessory Description	
4101441-501		Battery Eliminator Powers the Radio from an Adapter from External DC Power Source, 4 ft L Cable, 12V DC Input Voltage	
4101441-502	5940-01-483-4815	Powers the Radio From a BA-XXX90 Battery, with 3 ft L Cable	
3101156-502	6160-01-611-3493	PJC Retention Battery W/No Cells	
3501100-501		Cable, 12-Pin ODU to USB	
3501102-501		Cable, 12-Pin ODU to EUD	
3501101-501		Cable, 19-Pin Nemesis to USB	
3501098-501		Cable, Keyfill/Programming, Non-Locking	
3501099-501		Cable, Keyfill/Programming, Locking	
1600654-1	6130-01-512-0183	Single Slot, AC Only	
1600966-1		Holster, Spear Radio	
1100849-505		UBC for Spear	
		UBC-Lite	
		TEA 19 pin PTT cord	
		KVL cable	
		SATCOM antennas	

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Specifications are subject to change without notice.

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