



THALES

Thales Defense & Security, Inc.

2026 Products



22605 Gateway Center Drive
Clarksburg, MD 20871

CAGE Code 23386

AN/PRC-148E-V1 Spear Radio

TH120 (2M), 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 and SATCOM waveforms, ensuring interoperability with existing legacy radio systems. Developed over 15 years, its programmable cryptography meets NSA Crypto Modernization standards. The AN/PRC-148E-V1 Spear offers an intuitive human-machine interface, reducing training needs, facilitating rapid deployment, and delivering the reliable performance that Warfighters have depended on for years.

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: 1.1 inches (2.79 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: 2M/20M

Waveforms/Modes of Operation Dependent on Configuration of Radio

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

Narrowband Channel

Frequency Range: 30 MHz–512 MHz

Transmit Power: 5 watt in all frequencies,
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-ABSB-SOC	Spear System, 20M (NON-BFT)		
PRC7348-ACSB-SOC	Spear System, 20M (BFT)		
PRC7348-BBS-SYS	Spear System, 2M (NON-BFT)		
PRC7348-BCSB-SOC	Spear System, 2M (BFT)		
Part Number	Accessory Description	NSN #	Category
✓ 4103113-502	Unit Assembly, Spear 20M (Non-BFT)		RT
✓ 4103113-501	Unit Assembly, Spear 20M BFT		RT
✓ 4103186-501	Unit Assembly, Spear 2M (Non-BFT)		RT
✓ 4103117-501	Unit Assembly, Spear 2M BFT		RT
✓ 4103117-501	Battery Assembly, 3 Cell		Battery
✓ TBD	Antenna Broad Band Blade		Antenna

Accessories

Part Number	NSN Number	Accessory Description	
1600500-1	5985-01-487-1134	Antenna, 20M Broadband 30–512 MHz	
1600500-3	5985-01-584-7883	Antenna, 2M Broadband 30–512 MHz	
1600629-1	5985-01-487-1135	Antenna, Single Band Blade 30–90 MHz	
1600865-17	5965-01-669-5729	Headset, 2 Channel, With Talkthru, Comtac XPI Use With V20 (1600865-26) or V60 PTT (1600865-21)	
1600865-8		In-Ear Headset, 20M Submersible, One Ear, Single Sided, Lightweight (Earphone Kit 1100542-501 is Included) Use With V20 (1600865-26) or V60 PTT (1600865-21)	<i>Photo Not Available</i>
1600865-21	5995-01-669-7150	Push to Talk (PTT), V60, Tan	
1600865-26		Push to Talk (PTT), V20, Tan	
1600865-28		Cable Assembly, V60 to Single Channel 19-Pin	<i>Photo Not Available</i>
1600842-2	6140-01-665-0882	Battery, Plastic, High Capacity	
4103117-501		Spear Battery Assembly, 3 Cell	
4101240-501	6160-01-487-1151	Battery Cell Holder Uses 12x non-rechargeable DL123A/ CR1233A cells	

Accessories

Part Number	NSN Number	Accessory Description	
4101441-501		Battery Eliminator Powers the Radio from an Adapter from External DC Power Source, 4'L Cable, 12V DC Input Voltage	
4101441-502	5940-01-483-4815	Powers the Radio From a BA-XXX90 Battery, with 3'L Cable	<i>Photo Not Available</i>
3101156-502	6160-01-611-3493	PJC Retention Battery W/No Cells	<i>Photo Not Available</i>
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	<i>Photo Not Available</i>
1600966-1		Holster, Spear Radio	<i>Photo Not Available</i>
4103135-501	5820-01-699-2144	Remote Control HMI Assembly	
3101156-502	6160-01-611-3493	PJC Retention Battery W/No Cells	<i>Photo Not Available</i>

Capabilities

Key Features

- > Smallest and Lightest, Single Channel Handheld Radio Available
- > Type-1 Certified Programmable Encryption Engine (AIM)
- > 2M/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

052026:V1

Thales has a policy of continuous development and improvement and consequently the equipment may vary from the description and specification in this document. This document may not be considered as a contract specification. Graphics do not indicate use or endorsement of the featured equipment or service. Copyright © 2026 Thales