THALES

Thales Defense & Security, Inc.



Products

22605 Gateway Center Drive
Clarksburg, MD 20871

CAGE Code 23386

RT-2129
Combat Net Radio (CNR) System

TH140
Field-Proven Crypto Modernized Mounted and Dismounted Communications Solution



The Thales RT-2129 Combat Net Radio (CNR) System equips warfighters with highly secure Crypto-Modernized Command, Control, and Communications (C3) secure voice and data communications for both mounted and dismounted operations. The RT-2129 is a form-fit-function drop-in upgrade of the legacy RT-1523E/F radios and is readily deployable. The Thales CNR radio was developed in accordance with the U.S. Army's program of record specifications for the legacy RT-1523. In addition to enhancing current communications capabilities, the Thales CNR radio transceivers have been designed to offer full interoperability with new and legacy systems.

The Thales RT-2129 radio system is engineered to meet versatile mission needs as either a mounted solution readily installed into existing or new VRC VAA applications or as a small form factor dismounted handheld. In the mounted application, the radio works with the Embedded Tactical Data Router and as a handheld/manpack, it features a standard interface. In both use cases this enables C2 applications to access the Tactical Internet.



ITAR Controlled

Capabilities

Key Features

- Drop-In Replacement for ll Legacy RT-1523E/F
- Reduced Form Factor Dismount Handheld
- Crypto Modernized NSA Approved
- Robust Voice Clarity
- Extremely Easy to Use, No External Programming Required
- Reliable and Durable, Simplified Maintenance
- Supports SAASM GPS for Mounted and Dismounted Operations
- Compliant with the Universal Battery Charger Family of Tactical Chargers
- World's Most Fielded Tactical Radio Technology
- Interoperable with all Legacy Single-Channel and Next Generation One and Two-Channel Radios

Technical Specifications

Physical Parameters

Mounted (Radio, Battery and Cradle Vehicle Adapter)

Length: 9.95 in (25.3 cm)

Width: 5.30 in (13.5 cm)

Depth: 3.40 in (8.6 cm)

Weight: 5.4 lb (2449 g) — including Battery

Environmental Specifications

MIL-STD-810

Temperature: -32 °C to +71 °C

Immersion: 1M (3 ft)

Shock and Vibration: MIL-STD-810G

Ballistic Shock: MIL-STD-810G

Dust/Salt Fog/Rain: MIL-STD-810G

Humidity: (5%–95% non-condensing)

MIL-STD-810G

EMI: MIL-STD-461

HEMP: MIL-STD-2169B

Optional/Other

Dismount Remote Control

Mounted Remote Control

2 Wire Remote Control: Secure remote control capability for up to 4 km distance

Operating Temperature

Mounted: -32 °C to +71 °C

Dismounted: -32 °C to +55 °C

Storage Temperature: -51 °C to +71 °C

Nuclear Survivability: A3140904

Waveforms/Modes of Operation

Waveforms: SINCGARS

Voice and Data Modes: Single-channel and frequency hopping (FH, FH2, FH3) MIL-STD-188-220C operations with TI X.21 packet data interface asynchronous and synchronous data at 1200, 2400, 4800, 9600, and 16000 bps

Encryption: Type 1

Internal Encryption: PT/CT/CT2

RF Characteristics

Frequency Range: 30 MHz – 88 MHz

Channel Spacing: 25 kHZ

Presets: 256

Power Output: (selectable) 5UmW, 200mW, 5W

Power

Dismounted: Battery 12–14 V Standard

Mounted: Vehicle (via CNR Vehicle Adapter (CVA) needed for the mounted configuration VAA)

Part Number	System Description	NSN
1100902-501	KIT, CNR Dismounted RT	
1100866-501	Kit, Mounted RCHD	
4103330-501	Unit Assembly, CNR Mount	
PRC7350-BBSG-BAS	CNR System, Basic BOM	

			Part Number	Accessory Description	NSN	Category
✓		✓	1600842-11	LR Rechargeable Battery	6140-01-679-9214	Battery
		✓	4103323-501	Unit Assembly, CNR Handheld	5820-01-703-4056	RT
		✓	3402339-1	Torque Tool, HUB	5120-01-699-3871	Spares
	✓		4103330-501	Unit Assembly, CNR Mount	5975-01-707-8060	VA
	✓		3501150-501	Cable, RCHD to Mounted CNR	5995-01-717-7034	Cable
	✓		4103355-502	Unit Assembly, Mounted Remote Control Device	5820-01-717-3278	RCH
	✓		4401303-1	Vehicle Mount, RCHD	5342-01-717-6508	Mount
	✓		77870-001	SCR FLH 100 xREC 4-40 x 0.250 SS BLK OX	5305-01-718-6247	Mount
✓			1600814-1	Antenna, 50 in Blade 30–88 MHz H	5985-01-669-5678	Antenna
✓			1600494-20	Holster Expandable Multicam	5895-01-679-8664	Holster
✓			1600469-4	Balanced Speaker Microphone	5965-01-507-3576	Microphone

Accessories

Part Number	NSN	Accessory Description
3501169-501		CVA cable, 12 pin ODU to USB, software download
1600842-11	6140-01-679-9214	LR Rechargeable Battery
3402339-1	5120-01-699-3871	Torque Tool, HUB
3501150-501	5995-01-717-7034	Cable, RCHD to Mounted CNR
1600713-11	5995-01-669-7121	RT cable, accessory, sidemate

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CERTIFIED
ISO 9001 · AS 9100

Specifications are subject to change without notice.

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