



THALES

Thales Defense & Security, Inc.

Products



22605 Gateway Center Drive
Clarksburg, MD 20871

CAGE Code 23386

International **IMBITR**

TH5320 (2M), TH5325 (20M)



The Thales TH5320/TH5325 2-channel tactical radio significantly enhances the capabilities of the widely fielded PRC6809 radio. The TH5320/TH5325 offers all the existing functionality of the current PRC6809 radio with the addition of the TrellisWare® TSM™ wideband networking waveform capability. Within a compact, lightweight, rugged package, the radio provides simultaneous narrowband and wideband communications capabilities necessary to support tactical command and control communications in a variety of challenging radio-operating environments.

The robust TSM waveform provides superior voice and data communications across harsh multipath and highly dynamic environments, such as shipboard, caves and urban operational settings.

Capabilities

Key Features

- > Embedded GPS
- > Improved Narrowband Tx/Rx Co-site Performance Parameters
- > AES 256 Encryption
- > Rechargeable Lithium-Ion 7.0 Ah
- > Compliant with the Universal Battery Charger (UBC) Family of Tactical Chargers

Technical Specifications

Physical Parameters

Length: 8.50 in (21.59 cm) (with battery attached, excluding antennas)
(2M version) 8.65 in (21.97 cm)
(with battery attached, excluding antennas) (20M version)

Width: 2.65 in (6.73 cm)

Depth: 1.75 in (4.45 cm)

Weight: 2.30 lb—Radio and Battery (1043 g)

Environmental Specifications

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

Storage Temperature: -33 °C to +71 °C

Immersion: 2M/20M

Waveforms/Modes of Operation Dependent on Configuration of Radio

TSM

- Infrastructure-less MANET
- High-speed wireless IP networking
- Self-Forming, self-healing
- Scalable to 200+ nodes
- Robust in harsh environments
- Fast, seamless network join/merge
- Instant adaptation to network topology change

AM/FM

Situational Awareness

Retransmission — NB only

Narrowband Channel

Frequency Characteristics

Frequency Range: 30 MHz–512 MHz

Transmit Power: Up to 5 W in all frequencies

Step Size: 5 kHz and 6.25 kHz

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

Wideband Channel

Transmit Power: Up to 2 W

Operating Frequencies: L-UHF: 225 MHz – 450 MHz, U-UHF: 698 MHz – 970 MHz, L/S Bands: 1250 MHz – 2600 MHz

Network Throughput: up to 16 Mbps

Encryption Security: AES-256

Dedicated PTT Voice Channels: supports up to 32 talk groups, AMR 5.9 or MELPe

Occupied Bandwidth: 1.2 MHz – 40 MHz

Net entry time <1 sec

Supports up to 8 hops for voice and data

Scalable to 200+ nodes in a single RF channel

Unicast, Multicast, Broadcast IP data support

Multiple simultaneous streaming videos

Position Location Information (PLI) support with Cursor-on-Target (CoT)

OTA Remote Control

Part Number		System Description	NSN		
PRC7349-ABSB-SYS		Non-Type 1 IMBITR System, 20M			
PRC7349-ABSB-INT		Non-Type 1 IMBITR System, 20M (Intl.)			
PRC7349-BBSB-SYS		Non-Type 1 IMBITR System, 2M			
PRC7349-BBSB-INT		Non-Type 1 IMBITR System, 2M (Intl.)			
		Part Number	Accessory Description	NSN	Category
✓	✓	4103108-501	Unit Assembly, IMBITR Non-Type 1 20M		RT
	✓	4103109-501	Unit Assembly, IMBITR Non-Type 1 2M		RT
✓	✓	1600842-11	Battery, Metal, Li-Ion Rechargeable 7.0Ah	6140-01-679-9214	Battery
✓	✓	1600814-1	Antenna 50 in Blade 30–88 MHz		
	✓		Handheld Filtered 20M	5985-01-669-5678	Antenna
✓	✓	1600816-1	Antenna, 13 in Whip Broadband		
	✓		30–512 MHz Handheld Filtered 20M	5985-01-669-7137	Antenna
✓	✓	1600944-1	Antenna, TSM L/S Band	5985-01-692-1003	Antenna
✓	✓	1600958-1	Antenna, UHF Dipole 225–450 MHz	5985-01-692-1237	Antenna
✓	✓	1600960-1	Antenna, GPS	5985-01-692-1207	Antenna
✓	✓	1600469-12	Balanced Speaker Microphone	5965-01-679-9222	Audio
✓	✓	1600494-20	Holster, Expandable MultiCam	5895-01-679-8664	Holster

Accessories

Part Number	NSN	Accessory Description
1600814-1	5985-01-669-5678	Antenna, 50 in Blade 30–88 MHz Handheld Filtered 20M
1600816-1	5985-01-669-7137	Antenna, 13 in Whip Broadband 30–512 MHz Handheld Filtered 20M
1600944-1	5985-01-692-1003	Antenna, TSM L/S Band 1250–2600 MHz
1600958-1	5985-01-692-1237	Antenna, UHF Dipole 225–450 MHz
1600960-1	5985-01-692-1207	Antenna, GPS
3101351-501	5965-01-670-8194	Kit Dual Headset OTE 10-Pin W/PTT [Contains 2 channel headset P/N 1600865-17, PTT P/N 1600865-21, 10-Pin download cable P/N 1600865-24]
3101351-502		Kit Dual Headset OTE 11-Pin W/PTT [Contains 2 channel headset P/N 1600865-17, PTT P/N 1600865-21, 11-Pin download cable P/N 1600865-27]
1600893-1		Otto H3 Headset [With SureFire patented EarLock (R) Retention Rings and noise-reducing filters. Sounds at safe levels, including speech, are allowed to pass through and can be clearly heard, while potentially harmful noises are reduced]

Accessories

Part Number	NSN	Accessory Description
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)
1600469-4	5965-01-507-3576	Balanced Speaker Microphone, Single Channel (Earphone kit 1100542-501 is included)
1600469-14	5965-01-679-9222	Two-Channel Speaker Mic Full Duplex
1100542-501	5965-01-507-3577	Earphone Kit R25
1600865-21	5995-01-669-7150	Push to Talk (PTT), V60, Tan
1600865-26		Push to Talk (PTT), V20, Tan
1600865-24	5995-01-669-5711	10-Pin Downlead Cable (PTT to radio)
1600865-27		11-Pin Downlead Cable (PTT to radio)
3600416-1	5935-01-669-4993	Audio/Keyfill Adapter, 10-Pin to 11-Pin
85570-001	5995-01-679-8655	Cable, Audio 11-Pin to Dual 6-Pin Adapter, 12.5 in L
1600842-11	6140-01-679-9214	Battery, Metal, High Capacity, 7-Pin (Provides pass through power for use in VAA)
1600842-1	6140-01-624-6920	Battery, Metal, High Capacity, 6-Pin
4101240-501	6160-01-487-1151	Battery Cell Holder Uses 12x non-rechargeable DL123A/CR1233A cells
4101310-501	6130-01-506-7606	Special Power Adapter Interface (SPAI)
3500460-501	5995-01-506-7580	Special Power Adapter Interface (SPAI) DC Input Cable
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

Accessories

Part Number	NSN Number	Accessory Description
3501074-501		Cable, Glenair Extension, 12 in
3501074-502	5995-01-697-1660	Cable, Glenair Extension, 18 in
3501074-503		Cable, Glenair Extension, 24 in
3501074-504		Cable, Glenair Extension, 8 in
1600713-3	5995-01-558-3590	10 ft L Retransmission Cable
1600713-5	5995-01-487-1150	PLGR/DAGR GPS Cable
3500610-501	5995-01-558-3583	Cloning Cable
1600654-1	6130-01-512-0183	Single Slot, AC Only
81553-001		Samsung Galaxy S20 Tactical Edition
85761-001		Operator's Case Kit, Galaxy S20, Tan
854072-001		Cable, Rugged USB-C EUD Sinking Host
1600494-5	5895-01-679-8664	Holster, Multicam [for use with IMBITR without SIAM/ASM]
1600494-20	5895-01-679-8664	Holster, Expandable Multicam [for use with IMBITR, with or without SIAM/ASM]
1600854-2		Holster, Coyote [for use with IMBITR, with SIAM/ASM]
1600713-11	5995-01-669-7121	NB Programming/Data Cable [USB-A connection]
3101376-501	5995-01-679-8659	USB Programming Cable [Glenair to USB-A]
1100845-501	5895-01-699-2141	Leader Radio HMI Kit Contains Remote Control HMI Assembly (RCH)
3501080-501	5995-01-699-2138	Cable Assembly, RCH to ASM3
4401184-501		Vest Clip
1100846-501	5895-01-699-2711	Contains Remote Control HMI Assembly (RCH) 4103135-501, Vehicle Mount 4401185-1, and Cable Assembly 3501081-501
3501081-501	5995-01-699-2145	10 ft L Cable for Vehicle RCH
4401185-501		Vehicle Mount RCH

Accessories

Part Number	NSN Number	Accessory Description
4103135-501	5820-01-699-2144	Remote Control HMI Assembly
3101377-501	5995-01-679-7674	Nett Warrior Data and Power Adapter Kit [Contains Smart Interface Adapter Module (SIAM3) 4103059-501, and Advanced SideMate (ASM3) 3101372-501]
3101372-501	5895-01-681-9740	Advanced SideMate Adapter (ASM3) [Has host and device USB ports, conformal battery port, Glenair connections]
4103059-501	4920-01-681-5996	Smart Interface Adapter Module (SIAM3) [for use with ASM3 and Mission Modules]
3101614-502	5810-01-680-9686	Basic SideMate Adapter (BSM) [Direct USB connections for both WB and NB, Glenair connections, USB On-the-Go (OTG)]
311614-503	5935-01-682-4301	Basic SideMate Adapter (BSM) [Direct USB connections for both WB and NB, Glenair connections]
3101352-501	5995-01-679-8661	WB Programming Adapter [Ethernet RJ45 connection]
3101464-501	5895-01-699-2707	WB Dual Port Programming Adapter [Ethernet RJ45 connections to red and black sides of WB]
1100825-501		Ready Spares Kit

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Specifications are subject to change without notice.

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