



TM9400, TM9800, & TM9900 Radio Comparison

Quick guidance: Choose the TM9400 for proven single-band P25 operation, broad control-head choices, and higher-power configurations; the TM9800 for reconfigurable VHF/UHF multiband P25 operation at up to 25W; or the

TM9900 for the broadest interoperability, combining reconfigurable multiband operation with P25 and optional DMR.

Feature Comparison

Feature	TM9400	TM9800	TM9900
Best for	Established single-band P25 fleets needing flexible installations and higher-power options	Agencies needing reconfigurable VHF/UHF multiband P25 in one mobile	Multi-agency operations needing multiband P25 with optional DMR interoperability
Supported bands	Single-band VHF 136–174MHz; UHF 400–470 or 450–520MHz; 700/800MHz 762–870MHz	Configurable VHF 136–174MHz and UHF 378–520MHz; bands can be reconfigured over the air	Configurable combinations of VHF, UHF, 700/800MHz, and 900MHz; bands can be reconfigured over the air
Operating modes	Analog; P25 Phase 1 conventional/trunked; P25 Phase 2 trunked	Analog; P25 conventional; P25 Phase 1 and Phase 2 trunking	Analog; P25 conventional and Phase 1/2 trunking; optional DMR Tier 2 and Tier 3
Output power	VHF up to 50W; UHF up to 40W; 700/800MHz up to 35W, depending on model and band	25W, 10W, 5W, or 1W	VHF up to 50W; UHF up to 40W; 700/800MHz up to 35W; 900MHz up to 30W
Channels / zones	Up to 4,000 / 100	1,000 / 50 standard; 2,000 / 100 optional	4,000 / 100 shared between P25 and DMR
Control and audio	Multiple control-head and handheld-control-head options; AMBE+2 vocoder and digital noise suppression	Wide choice of control heads, microphones, speakers, and installation kits; handheld control head available	TCH3, TCH4, TCH6, and TCH8 control-head choices; optional 15W rugged external speaker
Connectivity / OTAP	P25-trunked OTAP; Bluetooth, WiFi OTAP, voice recording, and LTE capabilities available on some configurations	P25-trunked or WiFi OTAP with Tait EnableFleet; broadband options include WiFi vehicle-area networking and LTE	P25 or DMR trunked OTAP; optional Bluetooth, WiFi, and 4G LTE



Worker safety	Lone Worker, stealth emergency, covert microphone on some heads, optional location services and GeoFencing	Lone Worker, programmable emergency key, optional location services and GeoFencing; covert microphone with LCH	Lone Worker, programmable emergency key, optional location services and GeoFencing; covert microphone in TCH4 and TCH6
Ruggedness	IP54; exceeds relevant MIL-STD-810G tests; -22°F to +140°F	IP54; exceeds MIL-STD-810G; -22°F to +140°F	IP54; designed to meet listed MIL-STD-810 tests, with compliance pending in Tait's brochure; -22°F to +140°F
Encryption	End-to-end P25 encryption including AES; FIPS 140-2 Level 2 module, DES, ARC4, KFD, and OTAR support	End-to-end P25 encryption including AES	P25 FIPS-certified AES with DES and ARC4 interoperability; DMR ARC4, DES, and AES

Which Radio Should You Choose?

TM9400 Choose the TM9400 for proven single-band P25 operation, broad installation flexibility, and higher-power choices. It fits established fleets that need current P25 Phase 1 and Phase 2 capability with extensive control-head and upgrade options.	TM9800 Choose the TM9800 when one 25W mobile must operate across reconfigurable VHF and UHF bands. It is focused on multiband P25 interoperability, flexible installations, worker-safety options, and fleet updates over P25 trunking or WiFi.	TM9900 Choose the TM9900 for the widest network flexibility. It combines reconfigurable VHF, UHF, 700/800MHz, and 900MHz bands with P25 and optional DMR, 4,000 channels, multiple control heads, and optional Bluetooth, WiFi, and LTE.
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Product capabilities vary by model, frequency band, power configuration, control head, options, licenses, operating mode, and market. Confirm final compatibility and feature availability with Tait Communications or an authorized Tait channel partner.

Control Head Options

TCH-3



TCH-4



TCH-6



TCH-8



Handheld Control Head



Microphone Options

Standard Microphone



Keypad Microphone

