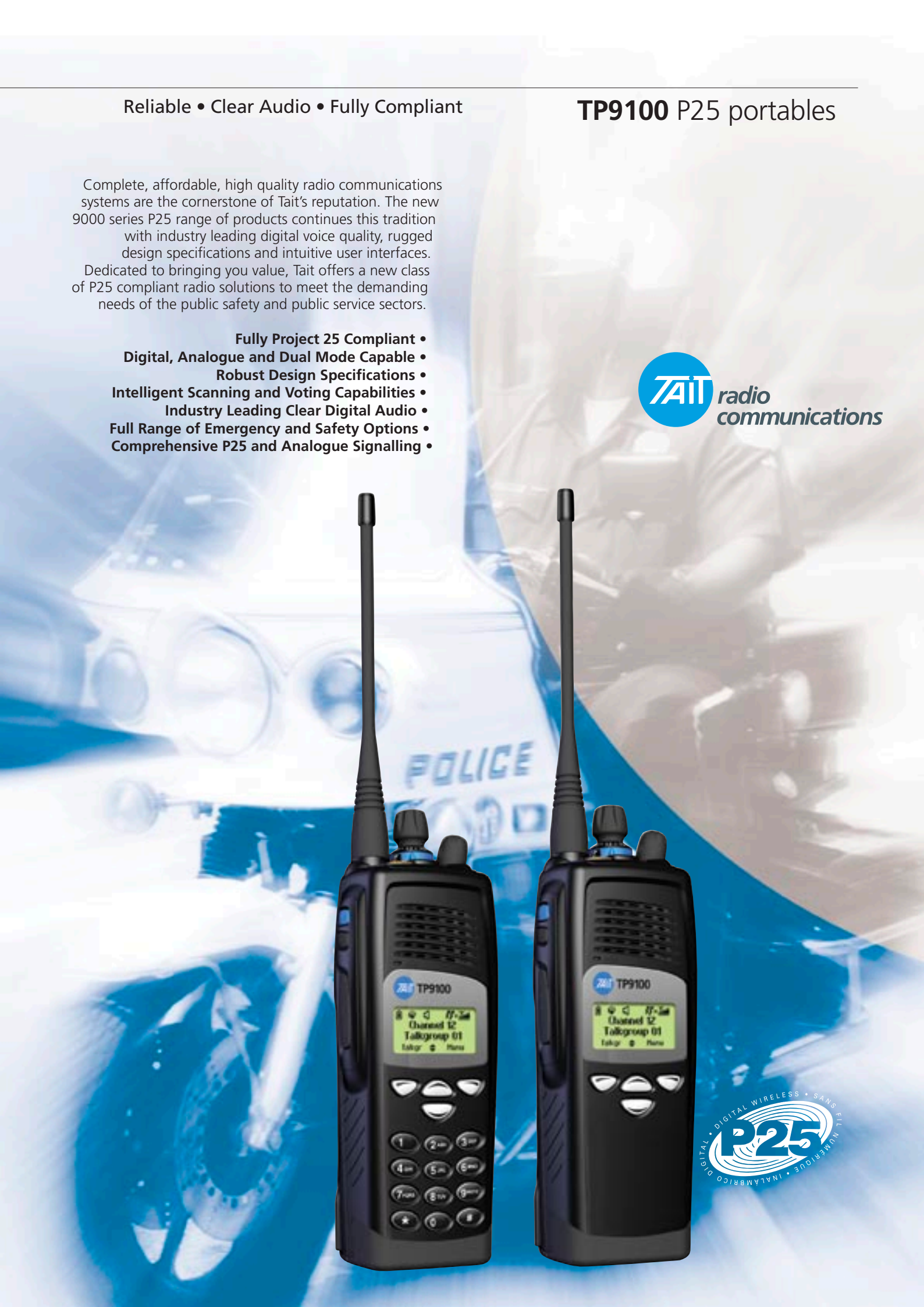
Reliable • Clear Audio • Fully Compliant

TP9100 P25 portables

Complete, affordable, high quality radio communications systems are the cornerstone of Tait's reputation. The new 9000 series P25 range of products continues this tradition with industry leading digital voice quality, rugged design specifications and intuitive user interfaces. Dedicated to bringing you value, Tait offers a new class of P25 compliant radio solutions to meet the demanding needs of the public safety and public service sectors.

Fully Project 25 Compliant •
Digital, Analogue and Dual Mode Capable •
Robust Design Specifications •
Intelligent Scanning and Voting Capabilities •
Industry Leading Clear Digital Audio •
Full Range of Emergency and Safety Options •
Comprehensive P25 and Analogue Signalling •

TAIT radio communications



P25 DIGITAL • DIGITAL WIRELESS • SANS FIL NUMERIQUE • INALAMBRICO

TP9100 P25 portables

Mission critical situations demand reliable, easy to use and clear communications. TP9100 P25 portables are high quality and affordable radios you can depend on.

Not all P25 digital communications systems are created equal. The TP9100 product line offers complete P25 digital and analogue compliance and includes such extras as DTMF, high quality channel voting, loads of emergency operation options and automatic mode selection that give you the peace of mind you want from your radio communications system.

Designed with the functionality required for public safety and public service organisations, TP9100 portables bring you state-of-the-art radio design coupled with robust specs and industry leading digital audio clarity. Quality you can depend on at a price you can afford.

Features

Full Project 25 Compliance
TP9100 P25 portables meet all Project 25 specifications for interoperability. As well as the mandatory elements of P25, optional P25 services such as individual calls, short data messages, status, radio inhibit/uninhibit and radio check are all available as standard. Tait's commitment to open standards means that your P25 system will not include proprietary encryption or signalling options that make inter-agency communications difficult.

Robust Design
With a synthetic rubber base to absorb impact, reinforced casing around the knobs and antenna mount, and a recessed lens, the TP9100s have been built to take the knocks. The unique battery catch mechanism ensures the battery will not accidentally dislodge, even if the radio is dropped. Military standards for shock are far exceeded with the TP9100.

Easy to Use
Accessible knobs, a large display, dedicated function keys and a modern intuitive menu make the TP9100s simple to operate. The user interface on the portables is also virtually identical to the TM9100 mobiles, meaning it is easy to swap between using a portable and a mobile. A quick reference card, automatically generated at the time of radio programming, also makes it easy for new users to learn how to operate the radio.

Emergency and Safety Options
The TP9100 P25 portables offer the most comprehensive range of personal safety options in the industry. Various emergency activation methods such as Man Down/Lone Worker are provided as standard, as well as a choice of Silent Mode for stealth operations or Panic Mode for those critical moments.

Intelligent Scanning Capability
Fast reliable scanning is a given in the Tait P25 product portfolio, but sometimes you need more. TP9100 portables offer dual priority scanning, user programmable scanning and nuisance delete.

Industry Leading Clear Digital Audio
The IMBE Vocoder in TP9100 series portables ensures your digital audio is always clear and crisp even in noisy background situations. Analogue channels also have noise reduction and companding options to ensure that both digital and analogue channels are heard loud and clear.

Multi-site Operation
Whether in a simulcast system or a multicast voting system, you need a strong signal plus good error correction. For simulcast systems, Tait radios are optimised for clear reception of a variety of transmit modulation formats. With Tait's intelligent voting capability your radio can quickly select the strongest channel for your location.

Intrinsically Safe (IS)
Factory Mutual approval means these radios are certified for use in hazardous environments in the United States. In other countries, ensure your use of this portable in your work environment does not breach your local regulations.

FM APPROVED

Standard Features
- Digital, Analogue and Dual Mode Capable
- 512 Channels/Talkgroups
- 26 Zones
- Large Graphical Backlit LCD
- Scanning
  - Priority and Dual Priority
  - 300 Scan Groups
  - User Editable Scanning
  - Nuisance Delete
- Voting
- Economy Mode
- Simulcast Operation
- Repeater Talkaround/Direct Mode
- Programmable Power Settings
- Transmit Timer and Lockout
- Keypad Lock
- Preset Home Channel
- Intelligent Batteries
- Emergency Operation
  - Stealth Mode
  - Panic Mode
  - Man Down/Lone Worker
- Analogue Operation
  - CTCSS/DCS
  - DTMF ANI
  - MDC1200® ANI*
  - Inversion Scrambler
- Project 25 Subscriber Services
  - Individual Calls
  - Talkgroup Calls
  - Talking Party Identification
  - Call Alert/Radio Page
  - Short Data Messages
  - Status Messages
  - Radio Check
  - Radio Inhibit/Uninhibit
  - Radio Unit Monitor

Optional Features
- Administrator Mode
- DES Encryption
- Full or Limited Front Panel Keypad
- AES Encryption*

Accessories
- IP54 Speaker Microphone
- IP54 RF Speaker Microphone
- IP68 Speaker Microphone
- 2-Wire and 3-Wire Lapel Microphones
- Lightweight Headsets
- Heavy Duty Headsets
- Single-way Smart Charger
- Multi-way Smart Charger
- Vehicle Smart Charger*

**Future release*

TAIT radio communications

TP9100 Specifications

TP9155 TP9160

TPA-CH-011
Smart Multi-charger

TPA-CH-001
Smart Charger

TPA-AA-203
Speaker Microphone

General

Frequency Ranges		**Receive**	**Transmit**
TP9155/60-B1	**VHF**	136–174MHz	136–174MHz
TP9155/60-H5	**UHF**	400–470MHz	400–470MHz
TP9155/60-H6	**UHF**	450–520MHz	450–520MHz
TP9155/60-K5	**800MHz**	762–776MHz	762–776MHz
			792–825MHz
		851–870MHz	851–870MHz
Channel Spacing	**VHF**	12.5/25/30kHz	
	UHF	12.5/25kHz	
	800MHz	12.5/20/25kHz	
Channels/Talkgroups		512 channels/26 zones	
Frequency Stability		±1.5ppm (-30°C to 60°C/22°F to 140°F)	
Dimensions (LxWxH)		163 x 66 x 48mm (6.4 x 2.6 x 1.9in)	
Weight (includes NiCD battery)		559g (19.7oz)	
Rated Audio		>500mW	
Battery Options		NiCD, NiMH	
Battery Shift Life			
with NiCD Packs		>8 hours 5/5/90	
with NiMH Packs		>12 hours 5/5/90	

Environmental

Standard - MIL-STD-810F*	**Method**	**Procedure**
Low Pressure	500.4	2
High Temperature	501.4	1, 2
Low Temperature	502.4	1, 2
Temperature Shock	503.4	1
Solar Radiation	505.4	1
Rain	506.4	1, 3
Humidity	507.4	1
Salt Fog	509.4	1
Dust	510.4	1
Vibration	514.5	1
Shock	516.5	1, 4

* Also meets equivalent superseded MIL-STD-810 C, D & E standards.

Sealing	IP54 dust and rain

Transmitter

RF Power Output	**VHF**	5W
	UHF	4W
	800MHz	3W
Modulation Limiting		
25/30kHz channel		±5kHz
12.5kHz channel		±2.5kHz

FM Hum & Noise	**VHF**	**UHF**	**800MHz**
25/30kHz channel	–48dB	–41dB	–40dB
12.5kHz channel	–42dB	–37dB	–34dB

Radiated & Conducted Emissions	–36dBm <1GHz –30dBm >1GHz
Audio Response	+1/–3dB
Audio Distortion	<2% @ 1KHz, 60%modulation

Receiver

Analogue Sensitivity	
12dB SINAD	–118dBm (0.28µV)
Digital Sensitivity (TIA/EIA-102)	
5%BER	–121dBm (0.20µV)
Intermodulation Rejection	75dB
Adjacent Channel Selectivity	
25/30kHz channel	73dB
12.5kHz channel	63dB
Spurious Response Rejection	75dB (typical) 2,2 Response >66dB at Band Extremes

FM Hum & Noise	**VHF**	**UHF**	**800MHz**
25/30kHz channel	–47dB	–45dB	–46dB
12.5kHz channel	–41dB	–40dB	–39dB

Audio Distortion @ Rated Audio	<3%
Audio Response	+1/–3dB

Regulatory Data

USA	**VHF**	CFR 47 Parts 22, 90.210, 74	
	UHF	CFR 47 Parts 22, 90.210, 74, 95A	
Canada		RSS-119	
Europe		EN300 086, EN300 113 EN300 219, EN301 489 EN60950-01	
Australia/New Zealand		AS4295: 1995	
Type Approval		**FCC**	**Industrie Canada**
	VHF	CASTPAB1A	737A-TPAB1A
	UHF	CASTPAH5A	737A-TPAH5A
		CASTPAH6A	737A-TPAH6A
	800MHz	CASTPAK5A	737A-TPAK6A
Emission Designators		10K0F1D, 10K0F1E, 10K0F7D, 10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D, 8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D	

Authorised Dealer

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. Please note that not all frequency bands and power outputs are available in all markets. For further information please check with your nearest Tait office or authorised dealer.

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