Version 2.0 April 2017

TP9361 Portable Radios, Intrinsically Safe – DMR, Analog

- Portable Radios Intrinsically Safe
- Options & Accessories





www.taitradio.com

Designed for maximum safety in the field and enhanced usability

Tait DMR is a highly reliable, modern, digital radio solution that is designed for mission critical environments. Tait DMR offers a digital communications solution based on the DMR Tier 3 trunking standard.

The TP9300 IS portables offer trunked DMR operation as well as full MPT 1327, and conventional FM functionality in one device. It can roam between DMR and MPT networks. The portable has inbuilt GPS and IP67 protection.

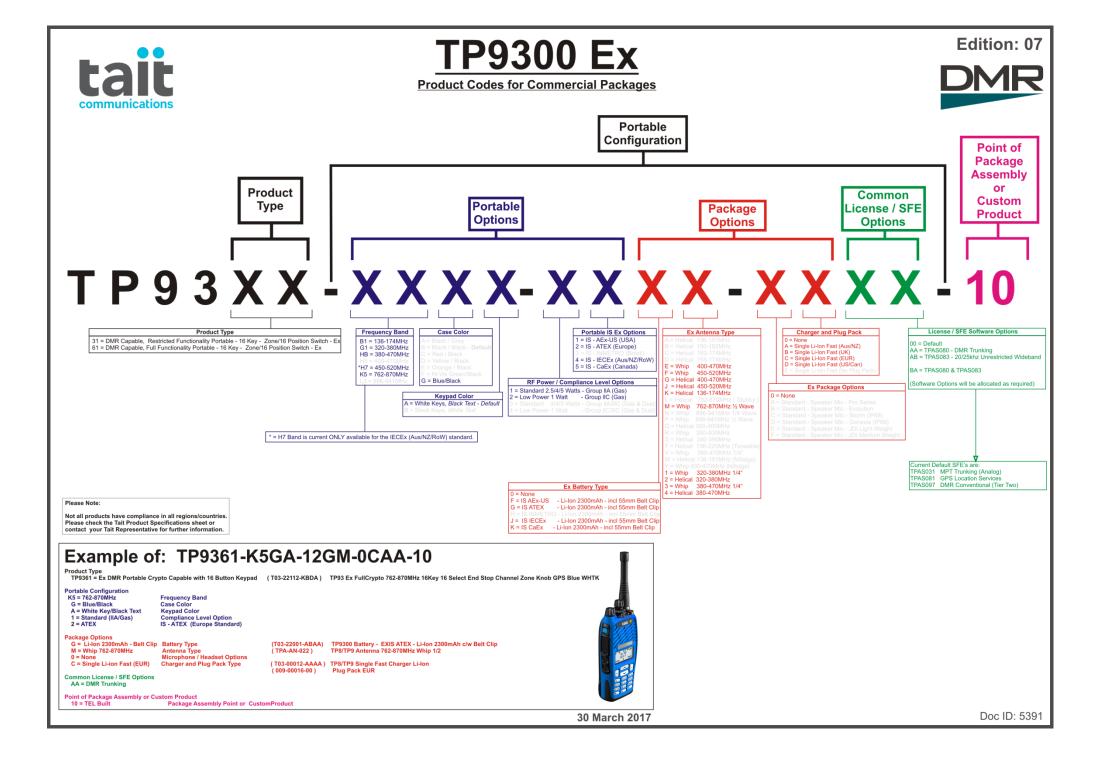
Key Features:

- Intrinsically Safe portable designed to meet stringent international safety standards
- Future proof multi-mode portable (DMR, MPT 1327 and conventional analog FM)
- ▶ DMR standards compliance providing choice and interoperability
- Engineered for demanding environments with IP67 rating
- ▶ OTAP (Over The Air Programming)
- Supporting worker safety with man down alerts and built in GPS positioning
- Text messaging and status calls to enhance your communications environment
- Crystal-clear audio quality
- Available in a range of models and configurable to suit your application
- Only available in IS blue

Note:

- Not all products have compliance in all regions/countries. Please check the Tait Product Specification sheet or contact your Tait Representative for further information.
- A non-encrypted version (TP9331) is also available. Please contact your Tait Representative for further information.







TP9361 - 16Key

Standard package includes:

- ▶ TP9360 Radio
- Antenna
- ▶ Li-Ion IS Battery
- ▶ Belt Clip
- Manual
- ▶ Single IS Charger and Plug Pack

Options:

- ▶ IS Ex Compliance option
 - Choose the IS Compliance from the TP9300 Ex Portable configuration table on page 3
- Battery
 - Choose the Battery from the TP9300 Ex Portable configuration table on page 3
- Charger & Plug Pack
 - Choose the Charger & Plug Pack from the TP9300 Ex Portable configuration table on page 3

Features:

- ▶ DMR Tier 3 Trunking
- LCD display
- Alphanumeric keypad
- ▶ Internal GPS
- Man Down
- Lone Worker
- ▶ IP67 Certified (1 metre water for 30 minutes)
- MIL-Standard 80C, D, E, F & G
- Programmable emergency key
- 3 Programmable function keys
- ▶ Side mounted accessory connector
- Two-shot moulding for extra durability



Note:

- Not all products have compliance in all regions/countries. Please check the Tait Product Specification sheet or contact your Tait Representative for further information.
- ▶ For more configuration options, please refer to the TP9300 Portable configuration table on page 3

Frequency Code	Frequency Band	TP9361 16Key
B1	136-174MHz	✓
G1	320-380MHz	✓
НВ	380-470MHz	✓
H7 ¹	450-520MHz	✓
K5	762-870MHz	✓

Note: 1 - IECEx + ATEX only



TP9300 - Features Comparison

OPERATION MODE	DMR Tier 2 Conventional	DMR Tier 3 Trunking
Radio Network Features	TP9361	TP9361
Trunked Channels		1000
Conventional Channels	1500	
Zones	26	Max.1000
Scan Groups	300	
Advanced hunt routines		✓
Manual site select		✓
Multiple network capability		✓
Repeater talkaround		
Digital Simplex	✓	
Transmit Lockout	✓	✓
Transmit Low Power	✓	✓
Transmit Timer	✓	√
Voting	✓	
Scanning	✓	
CTCSS (Continuous Tone Controlled Squelch System)		
CTCSS on conventional channel (Trunked)		
CTCSS on traffic channel (Trunked)		
DCS (Digitally Coded Squelch)		
MDC1200 (En/Decode)		
Multiple SELCALL Networks		
Programmable Group Tone		
Programmable User Defined SELCALL Tone Set		
SELCALL (Selective calling)		
Type 99 Decode		
Call types		
Workgroups		Max.1000
Talk Groups	TBC	1500
Broadcast group call		✓
Conference group call	✓	✓
Group Calls	✓	✓
Individual Calls	✓	✓
Interfleet Calls		✓
PABX calls (Private Automatic Branch Exchange		✓
Preset Calls		✓
Priority Call	✓	✓



OPERATION MODE	DMR Tier 2 Conventional	DMR Tier 3 Trunking
Call types - continued	TP9361	TP9361
Priority Call - 3 Level Priority		✓
PSTN calls (Public Switched Telephone Network)		✓
Status messages	✓	✓
Automatic call back		✓
Dynamic regrouping		✓
Join busy group	✓	✓
Monitor Function		✓
Nuisance Delete from group	✓	✓
Call Alerts	✓	✓
OACSU (Off Air Call Setup)	✓	
Radio Check.	/	✓
SDM (Short Data Message)		✓
All Identity Call	/	✓
PATCS Push and Talk Call Setup	/	
Data		
CCDI (Computer Controlled Data Interface)	✓	
FFSK		
Radio Access Protocol (RAP) (Map27)		✓
Packet Data	✓	✓
Safety and Security		
Internal GPS	✓	✓
Transmit GPS During Voice Calls		✓
GPS over SDM		✓
Lone Worker	✓	✓
Man Down	✓	✓
Programmable Emergency Key	✓	✓
Emergency Call	✓	✓
Stun & Revive (Remote)	✓	✓
Remote monitor (enables Microphone and Transmitter remotely)	✓	
Encryption, Single key 56 Bit DES.	✓	✓
Voice Inversion Scrambler		
User Interface		
LCD Display	✓	✓
4 Programmable Function Keys - including Emergency Key	✓	✓
Side-tone generation		
Alphanumeric Presets		100
Programmable Channel Selector	/	✓



OPERATION MODE	DMR Tier 2 Conventional	DMR Tier 3 Trunking
User Interface - continued	TP9361	TP9361
Programmable 3 way Zone Switch (optional)	✓	✓
Alphanumeric Labels	✓	✓
ANI (Automatic Number Identification)	✓	✓
Audible Indicator Control	✓	✓
Auto Noise Reduction (ANR)		
Auto Quiet Timer		
Backlight Control	✓	✓
Busy Channel Lockout (Also known as Transmit Inhibit)	✓	
Call Diversion		✓
Call in absence indicator		✓
Call Queuing		✓
Call time limit display		✓
Caller ID	✓	✓
Channel Presets		✓
Deferred Calling		
DTMF (Dual Tone Multi Frequency) (Encode)		
Key Beeps / Confidence Tones / Audible Indicators	✓	✓
Key Lock	✓	✓
LCD Contrast Adjust	✓	✓
Network name		✓
Programmable Group Membership	✓	
PTT Redial		✓
Squelch override		
Status labels	✓	✓
Talker ID	✓	✓
Trunked Channel Display		✓
Go ahead tone	✓	✓
Physical Features		
IP67 Certified	✓	✓
Military Standard 810 C, D, E, F & G	✓	✓
Side Mounted Accessories Connector	✓	✓
Two-shot Moulded Construction	✓	✓



Software Licenses

ITEM CODE	DESCRIPTION
TPAS080	SFE Key - DMR Trunking (Digital) (93)
TPAS090	SFE Key - Data Services (93)
TPAS094	SFE Key - Unrestricted Dist. DES Encryption (9335/9340)
TPAS095	SFE Key – DES Encryption (9355 / 9360)
TPAS083	SFE Key - 20/25khz Unrestricted Wideband (TP91/93/94) Note: Required only if Wide Band (WB) is being added to a Narrow Band (NB) radio. Not available to USA customers

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your Tait Representative for further details



Batteries & Chargers

ITEM CODE	DESCRIPTION
Batteries	
T03-22001-AAAA	TP93/94 Battery – ExIS IIA Li-Ion 2300mAh AEx
T03-22001-AACA	TP93/94 Battery – ExIS IIC Li-Ion 2300mAh AEx
T03-22001-ABAA	TP93/94 Battery – ExIS IIA Li-Ion 2300mAh ATEX
T03-22001-ABCA	TP93/94 Battery – ExIS IIC Li-Ion 2300mAh ATEX
T03-22001-ADAA	TP93/94 Battery – ExIS IIA Li-Ion 2300mAh IECEx
T03-22001-ADCA	TP93/94 Battery – ExIS IIC Li-Ion 2300mAh IECEx
T03-22001-AEAA	TP93/94 Battery – ExIS IIA Li-Ion 2300mAh CaEx
T03-22001-AECA	TP93/94 Battery – ExIS IIC Li-Ion 2300mAh CaEx
Battery Belt Clip	
TPA-CA-201	TP8/9 Belt Clip 55mm
Chargers	
T03-22011-BABA	TP93/94 Single Charger AEx/CaEx Plug Pack
T03-22011-BDCA	TP93/94 Single Charger IECEx/ATEX Plug Pack EU
T03-22011-BDDA	TP93/94 Single Charger IECEx/ATEX Plug Pack UK
T03-22011-BDFA	TP93/94 Single Charger IECEx/ATEX Plug Pack ANZ
T03-22011-CABA	TP93/94 Ex 6-Way Charger AEx/CaEx US Cable
T03-22011-CDCA	TP93/94 Ex 6-Way Charger IECEx+ATEX EU Cable
T03-22011-CDDA	TP93/94 Ex 6-Way Charger IECEx+ATEX UK Cable
T03-22011-CDFA	TP93/94 Ex 6-Way Charger IECEx+ATEX ANZ Cable
Plug Packs	
009-00014-01	PSU Plug Pack 12V 2A Aus/NZ
009-00015-01	PSU Plug Pack 12V 2A UK
009-00016-01	PSU Plug Pack 12V 2A EU
009-00017-01	PSU Plug Pack 12V 2A US

T03-22001-A*AA

TP93/94 Battery - ExIS IIA Li-Ion 2300mAh

T03-22001-A*CA

TP93/94 Battery - ExIS IIC Li-Ion 2300mAh





T03-22011-B**A











Audio Accessories

Only the listed IS approved accessories shall be used with TP9361 IS radios. Use of any other accessory voids the IS approval.

Please contact your Tait customer support representative if you require an audio accessory that is not shown here

ITEM CODE	DESCRIPTION	
Speaker Microphone		
T03-22008-AAAA	TP93/94 Ex Speaker Microphone Storm IP68 Emergency-Button 2.5mm-Jack	
Ear Piece		
T03-22008-CAAA	TP93/94 Ex Earphone In-Ear 2.5mm	
Headsets		
T03-22008-BAAA	TP93/94 Ex Headset Heavy-Duty Overhead	
T03-22008-BABA	TP93/94 Ex Headset Heavy-Duty Behind-Head	
Replacement Part		
TPA-AA-214	Earpiece Quick Disconnect Acoustic Tube – Set of 5	





Carry Accessories

ITEM CODE	DESCRIPTION		
Carry Cases			
T03-22007-0001	TP93/94 Ex Carry Case Heavy Duty Leather D-St	ud Belt Loop	
T03-22007-0002	TP93/94 Ex Carry Case Heavy Duty Leather Sprir	TP93/94 Ex Carry Case Heavy Duty Leather Spring Clip	
T03-22007-0003	TP93/94 Ex Carry Case Heavy Duty Leather Belt	Loop	
T03-22007-0004	TP93/94 Ex Battery Carry Case Heavy Duty Leath	ner	
T03-22007-0005	TP93/94 Ex Battery Carry Case Heavy Duty Leath	ner D-Stud Belt Loop	
T03-22007-0006	TP93/94 Ex Battery Carry Case Heavy Duty Leath	ner Spring Clip	
T03-22007-0007	TP93/94 Ex Battery Carry Case Heavy Duty Leath	ner Belt Loop	
Accessories			
TPA-CA-201	TP8/9 Belt Clip 55mm		
TPA-CA-208	TP8/9 Belt Clip Adaptor for 55mm Belt Clip	Requires TPA-CA-201	
T03-00038-0022	TP8/9 Belt Loop For D-Stud 55mm	TP8/9 Belt Loop For D-Stud 55mm	
T03-00038-0023	TP8/9 Spring Clip For D-Stud 40mm	TP8/9 Spring Clip For D-Stud 40mm	

Note: A Battery Carry Case must be used to carry a spare battery into a Hazardous Area.

T03-00038-0022 Belt Loop For D-Stud 55mm



T03-00038-0023 Spring Clip For D- Stud 40mm



TPA-CA-208 Adaptor for 55mm Belt Clip





Carry Accessories

T03-22007-0001 Ex Carry Case Heavy Duty Leather D-Stud Belt Loop



T03-22007-0004 Ex Battery Carry Case Heavy Duty Leather



T03-22007-0002 Ex Carry Case Heavy Duty Leather Spring Clip



T03-22007-0005 Ex Battery Carry Case Heavy Duty Leather D-Stud Belt Loop



T03-22007-0003 Ex Carry Case Heavy Duty Leather Belt Loop



T03-22007-0006 Ex Battery Carry Case Heavy Duty Leather Spring Clip



T03-22007-0007 Ex Battery Carry Case Heavy Duty Leather Belt Loop





Antennas

ITEM CODE	DESCRIPTION
Antennas	
TPA-AN-011	TP8/9 Antenna 400-470MHz Whip
TPA-AN-012 ¹	TP8/9 Ant 450-520MHz whip
TPA-AN-013	TP8/9 Antenna 400-470MHz Helical
TPA-AN-015	TP8/9 Ant 450-520MHz Helical
TPA-AN-022	TP8/9 Antenna 762-870MHz ½ Wave Whip
TPA-AN-034	TP8/9 Antenna 136-174MHz Helical
TPA-AN-035	TP93/94 Ant:320-380MHz 1/4 wave whip
TPA-AN-036	TP93/94 Ant:320-380MHz Helical
TPA-AN-037	TP93/94 Antenna 380-470MHz 1/4 wave whip
TPA-AN-038	TP93/94 Antenna 380-470MHz Helical

Note: 1 - Not approved for use with carry case T03-22007-0003 in FCC jurisdictions.

Programming Leads

ITEM CODE ²	DESCRIPTION
T03-22009-AAAA	TP93/94 Programming Adaptor AEx/ CaEx
T03-22009-ADAA	TP93/94 Programming Adaptor IECEx / ATEX

Note: ²⁻Only IS programming adapters can be used when programming Intrinsically Safe Portables, also required for loading encryption keys via Tait Keyfill Device.