Version 3.2 November 2018

TP8100 Portable Radios – Analog

- Portable Radio
- Options & Accessories





PREFACE

Please read before using this product catalog.

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Scope:

This product catalog outlines the Tait product range.

Custom product and non-standard equipment is not listed. Please contact your Tait representative if you require information on any product not listed within this book.

Product Status:

Every care has been taken to assure that the products meet the respective regulatory requirements. However, Tait does not warrant that all products meet specific country requirements.

If you have any questions regarding product suitability please contact your Tait representative.

Terms and Conditions of Sale:

All sales and quotations for Tait products and services are subject to the current version of the Tait Standard Terms and Conditions for Supply. For a copy of the Terms and Conditions please contact your Tait representative

Confidentiality:

This product catalog contains information which is confidential and is solely for the use of the intended recipient. If you are not the intended recipient, be aware that any review, disclosure, copying, distribution, or use of the contents of this catalog is strictly prohibited. If you have received this in error, please destroy it and notify us immediately notices@taitradio.com

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Update and Changes:

The information within the product catalog is subject to change without notice and shall not form part of any contract. This information is issued for guidance purposes only. Please note that not all frequency bands and power outputs are available in all markets.

Rugged • Reliable • Waterproof

Uncompromised build quality and sleek mechanical design make this reliable and waterproof portable radio ideal for situations when only the toughest will do. The TP8100 is sure to suit as a standalone portable or within a wider system solution.



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	✓	✓	✓	✓	✓
C0	174-225	✓	✓	✓	✓	✓
G2	350-400	✓	✓	✓	✓	✓
H5	400-470	✓	✓	✓	✓	✓
H6	450-530	✓	✓	✓	✓	✓
K6	806-870	✓	✓	✓	✓	✓
L3	896-941	✓	✓	✓	✓	✓

¹ - NON-ETSI Approved

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:88 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:04 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TPXXXX IS Accessories page.

For all enquiries relating to the sale and deployment of Intrinsically Safe portables and their accessories, please contact your local dealer for information specific to your operational needs.



Package Configurations

Use the options below to complete the TP8100 item codes shown on pages 5 to 14. For more configuration options, please refer to the TP8100 Portable configuration table on page 4.

For Example:

Replace characters in the item code to reflect the chosen options.

STANDARD PACKAGE					
TP8110-FFCY-XZ	Package with standard black front panel				
TP8110W-FFCY-XZ Package with colored front panel (red, yellow & orange)					
NON-INCENDIVE PACKAGE					
TP8110-FFGY-XZ	Non-Incendive Package with standard black front panel				
TP8110W-FFGY-XZ	Non-Incendive Package with colored front panel (red, yellow & orange)				

Where:

Frequency Options (FF):

B1 = 136-174MHz

C0 = 174-225MHz

 $G2 = 350-400MHz^{1}$ H5 = 400-470MHz

H6 = 450-530MHz

K6 = 806-870MHz

L3 = 896-941MHz

1 - NON-ETSI Approved

To order:

replace FF with the required frequency code

Where:

Package Options (X):

0 = None

2 = Man Down

3 = Encryption 7 = Non-Incendive (NI)

8 = Non-Incendive (NI) + Man Down

9 = Non-Incendive (NI) + Encryption

To order:

replace X with the required option

Where:

Charger Plug Pack Options (Z):

A = ANZ

B = UK

C = EUR

D = US/CAD

To order:

replace Z with the required option

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.
- Please contact your customer support representative for color availability.
- Please see pages 15-17 for full list of TP8100 radio features

Where:

Antenna Options (Y):

A = 136-151MHz 17.0cm (6 3/4 in) Helical

B = 150-162MHz 15.4cm (6 1/8 in) Helical

C = 162-174MHz 14.7cm (5 3/4 in) Helical

E = 400-470MHz 15.5cm (6 1/8 in) Whip

F = 450-520MHz 14.0cm (5 1/2 in) Whip

G = 400-470MHz 8.8cm (3 1/2 in) Helical

J = 450-520MHz 7.6cm (3in) Helical

L = 762-870MHz Helical (Stubby) M = 762-870MHz 1/2 in) Whip

N = 896-941MHz 1/4 in) Whip

P = 896-941MHz (1/2 in) Whip

Q = 350-400MHz Helical

R = 350-400MHz Whip

S = 340-390MHz Helical

T = 136-225MHz Tuneable

V = 380-420 MHz Whip

W = 136-151MHz no Badge Helical Y = 400-470MHz no Badge Whip

To order:

replace Y with the required frequency code

Where:

Front Panel Color Options (W):

A = Red

B = Yellow

C = Orange

To order:

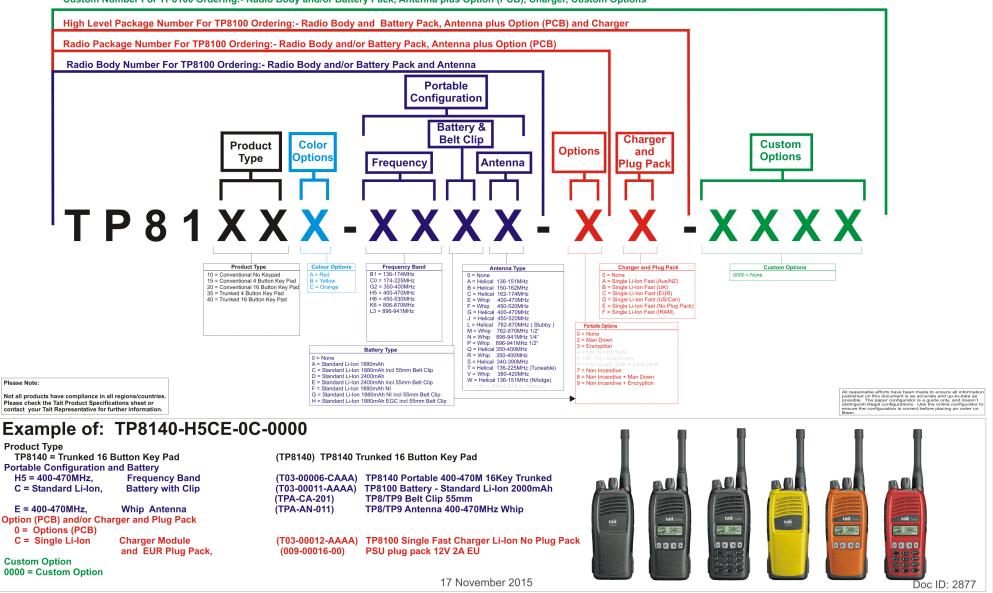
replace W with the required option



Edition: 10

Product Codes for Commercial Packages

Custom Number For TP8100 Ordering:- Radio Body and/or Battery Pack, Antenna plus Option (PCB), Charger, Custom Options



(0



TP8110 - 16 Channels

Conventional

Standard package includes:

- ▶ 16 Channels
- ▶ Angled rubber volume knob
- ▶ Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- ▶ Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- ▶ CCDI (Computer Controlled Data Interface)
- ▶ SELCALL (Selective calling)
- Voice inversion scrambler
- ▶ CTCSS/DCS
- Key lock
- Repeater talk-around
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table on page 4
- ▶ Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table on page 4

Note:

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- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 4.
- ▶ 1 NON-ETSI Approved



requency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
136–174	✓	√	√	√	√
174-225	✓	√	√	√	√
350-400	✓	√	√	√	√
400-470	✓	√	√	√	√
450-530	✓	√	√	√	√
806-870 ¹	✓	√	√	√	√
896-941 ¹	✓	√	√	√	√
	136–174 174-225 350-400 400-470 450-530 806-870	136–174	Conventional Conventional	Conventional Conventional Conventional	requency Band Conventional Conventional Conventional Trunked 136–174 ✓ ✓ ✓ ✓ 174-225 ✓ ✓ ✓ ✓ 350-400 ✓ ✓ ✓ ✓ 400-470 ✓ ✓ ✓ ✓ 450-530 ✓ ✓ ✓ ✓ 806-870 ✓ ✓ ✓ ✓



TP8115 - 128 Channels

Conventional

Standard package includes:

- ▶ 128 Channels
- ▶ 24 Character LCD display
- ▶ Angled rubber volume knob
- ▶ Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- ▶ CCDI (Computer Controlled Data Interface)
- ▶ SELCALL (Selective calling)
- ▶ CTCSS/DCS
- Key lock
- Night use
- Repeater talk-around
- ▶ Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table on page 4
- ▶ Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table on page 4

Note:

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- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 4.
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	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	√	✓	√	√	√
C0	174-225	√	✓	√	√	√
G2	350-400 ¹	√	✓	√	√	√
H5	400-470	√	✓	√	√	√
H6	450-530	√	✓	√	√	√
K6	806-870 ¹	✓	✓	√	√	√
L3	896-941 1	√	√	√	√	√



TP8120 - 350 Channels

Conventional

Standard package includes:

- ▶ 350 Channels
- ▶ 24 Character LCD display
- ▶ Angled rubber volume knob
- Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- ▶ CCDI (Computer Controlled Data Interface)
- SELCALL (Selective calling)
- ▶ CTCSS/DCS
- Key lock
- Night use
- PTT Redial
- ▶ Repeater talk-around
- ▶ SDM (Short Data Message)
- Stun & revive (Remote)

Options:

- ▶ Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table on page 4
- Man Down -
 - For configuration options, please refer to the TP8100 Portable configuration table on page 4

Note:

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- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 4.
- ¹ NON-ETSI Approved



Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
136–174	√	√	✓	√	√
174-225	√	√	✓	√	√
350-400 ¹	√	√	✓	√	√
400-470	√	√	✓	√	√
450-530	✓	√	✓	√	√
806-870 ¹	√	√	✓	√	√
896-941	√	√	✓	√	√
	174-225 350-400 ¹ 400-470 450-530 806-870 ¹	174-225 350-400 ¹ 400-470 450-530 806-870 ¹	174-225 350-400 ¹ 400-470 450-530 806-870 ¹	174-225 350-400 ¹ 400-470 450-530 806-870 ¹	174-225



TP8110 - 16 Channels Non-Incendive

Conventional

Standard package includes:

- ▶ 16 Channels
- Angled rubber volume knob
- ▶ Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CCDI (Computer Controlled Data Interface)
- ▶ SELCALL (Selective calling)
- Voice inversion scrambler
- ▶ CTCSS/DCS
- Key lock
- Repeater talk-around
- ▶ Stun & revive (Remote)

Options:

- ▶ Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table on page 4
- Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table on page 4

Note:

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- For Non-Incendive overview, please refer to page
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 4.
- ▶ 1 NON-ETSI Approved



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked		
B1	136–174	✓	√	√	√	√		
C0	174-225	✓	√	√	√	√		
G2	350-400 ¹	✓	√	√	√	√		
H5	400-470	✓	√	√	√	√		
H6	450-530	✓	√	√	√	√		
K6	806-870	✓	✓	√	√	√		
L3	896-941 1	✓	√	√	√	√		
Note:	Note: 1 - NON-ETSI Approved.							

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:1988 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:2004 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TP8100 IS Accessories section.

For all enquiries relating to the sale and deployment of Intrinsically Safe portables and their accessories, please contact your local dealer for information specific to your operational needs



TP8115 - 128 Channels Non-Incendive

Conventional

Standard package includes:

- ▶ 128 Channels
- ▶ 24 Character LCD display
- Angled rubber volume knob
- Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- ▶ CCDI (Computer Controlled Data Interface)
- ▶ SELCALL (Selective calling)
- ▶ CTCSS/DCS
- Key lock
- Night use
- ▶ Repeater talk-around
- ▶ Stun & revive (Remote)

Options:

- ▶ Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table page 4
- ▶ Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table - page 4

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 Non-Incendive overview, please refer to page 18-22
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page
- 1 NON-ETSI Approved



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	√	✓	√	√	√
C0	174-225	√	✓	√	√	√
G2	350-400 ¹	√	✓	√	√	√
H5	400-470	√	✓	√	√	√
H6	450-530	√	✓	√	√	√
K6	806-870 ¹	√	✓	√	√	√
L3	896-941 ¹	√	✓	√	√	√

Note: 1 - NON-ETSI Approved.

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:1988 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:2004 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TP8100 IS Accessories section.

For all enquiries relating to the sale and deployment of Intrinsically Safe portables and their accessories, please contact your local dealer for information specific to your operational needs.



TP8120 - 350 Channels Non-Incendive

Conventional

Standard package includes:

- ▶ 350 Channels
- 24 Character LCD display
- ▶ Angled rubber volume knob
- Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- ▶ Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- ▶ CCDI (Computer Controlled Data Interface)
- ▶ SELCALL (Selective calling)
- ▶ CTCSS/DCS
- Key lock
- Night use
- PTT Redial
- ▶ SDM (Short Data Message)

Options:

- ▶ Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table page 4
- ▶ Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table page 4

Note:

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- For Non-Incendive overview, please refer to page 18-22
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 4.
- ▶ 1 NON-ETSI Approved



▶ Stun & revive (Remote)

	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	√	√	✓	√	✓
C0	174-225	√	√	✓	√	√
G2	350-400 ¹	√	✓	✓	√	√
H5	400-470	√	√	✓	√	√
H6	450-530	√	✓	✓	√	√
K6	806-870 ¹	√	✓	✓	√	√
L3	896-941 1	√	√	✓	√	√

Note: 1 - NON-ETSI Approved.

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:1988 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:2004 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TP8100 IS Accessories section.

For all enquiries relating to the sale and deployment of Intrinsically Safe portables and their accessories, please contact your local dealer for information specific to your operational needs.



TP8135 - 100 Preset Call

Trunked

Standard package includes:

- ▶ 100 Alphanumeric preset calls
- ▶ 10 Conventional channels
- ▶ 24 Character LCD display
- Angled rubber volume knob
- ▶ Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- ▶ Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- ▶ CTCSS on conventional channel
- DCS (Tx only) on conventional channel
- Key lock
- Night use
- PTT redial
- ▶ Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table page 4
- ▶ Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table page 4

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.
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 4.
- ▶ 1 NON-ETSI Approved



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked		
B1	136–174	√	√	√	✓	√		
C0	174-225	√	√	√	✓	√		
G2	350-400 ¹	√	√	√	✓	√		
H5	400-470	√	√	√	✓	√		
H6	450-530	√	√	√	✓	√		
K6	806-870 ¹	√	√	√	✓	√		
L3	896-941	√	√	√	✓	√		
Note:	Note: 1 - NON-ETSI Approved.							



TP8140 - 100 Preset Call

Trunked

Standard package includes:

- ▶ 100 Alphanumeric preset calls
- ▶ 10 Conventional channels
- ▶ 24 Character LCD display
- Angled rubber volume knob
- ▶ Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- ▶ CTCSS on conventional channel
- DCS (Tx only) on conventional channel
- Key lock
- Night use
- PTT redial
- ▶ SDM (Short Data Message)
- ▶ Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table page 4
- ▶ Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table page 4

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.
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 4
- ▶ 1 NON-ETSI Approved



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	√	√	√	√	✓
C0	174-225	√	√	√	√	✓
G2	350-400 ¹	√	√	√	√	✓
H5	400-470	√	√	√	√	✓
H6	450-530	√	√	√	√	✓
K6	806-870 ¹	√	√	√	√	✓
L3	896-941 ¹	✓	✓	√	✓	✓



TP8135 – 100 Preset Call Non-Incendive

Trunked

Standard package includes:

- ▶ 100 Alphanumeric preset calls
- ▶ 10 Conventional channels
- ▶ 24 Character LCD display
- Angled rubber volume knob
- ▶ Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CTCSS on conventional channel
- DCS (Tx only) on conventional channel
- Key lock
- Night use
- PTT redial
- ▶ Stun & revive (Remote)

Options:

- ▶ Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table
 page 4
- ▶ Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table
 page 4

Note:

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- For Non-Incendive overview, please refer to page 18-22
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability

For more configuration options, please refer to the TP8100 Portable configuration table on page 4.



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	√	√	√	✓	√
C0	174-225	√	\checkmark	√	✓	√
G2	350-400 ¹	√	√	√	✓	√
H5	400-470	√	√	√	✓	√
H6	450-530	√	√	√	✓	√
K6	806-870 ¹	√	√	√	✓	√
L3	896-941 ¹	√	√	√	✓	√

Note: 1 - NON-ETSI Approved.

Cautionary Note

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Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TP8100 IS Accessories section.

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TP8140 - 100 Preset Call Non-Incendive

Trunked

Standard package includes:

- ▶ 100 Alphanumeric preset calls
- ▶ 10 Conventional channels
- 24 Character LCD display
- Angled rubber volume knob
- ▶ Large PTT (Push To Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- ▶ Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- ▶ CTCSS on conventional channel
- ▶ DCS (Tx only) on conventional channel
- Key lock
- Night use
- PTT redial
- ▶ SDM (Short Data Message)
- Stun & revive (Remote)

Options:

- ▶ Encryption
 - For overview, please refer to pages 23-25
 - For configuration options, please refer to the TP8100 Portable configuration table page 4
- Man Down -
 - For configuration options, please refer to the TP8100 Portable configuration table page 4

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 Non-Incendive overview, please refer to page 18-22
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 4.



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked		
B1	136–174	√	√	√	√	✓		
C0	174-225	√	√	√	√	✓		
G2	350-400 ¹	√	√	√	√	✓		
H5	400-470	√	√	√	√	✓		
H6	450-530	√	√	√	√	✓		
K6	806-870 ¹	√	√	√	√	✓		
L3	896-941 ¹	√	√	√	√	✓		
Note:	Note: 1 - NON-ETSI Approved.							

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:1988 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:2004 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TP8100 IS Accessories section.

For all enquiries relating to the sale and deployment of Intrinsically Safe portables and their accessories, please contact your local dealer for information specific to your operational needs.



TP8100 – Features Comparison

RADIO FEATURES	TP8110	TP8115	TP8120	TP8135	TP8140
Number of Conventional Channels	16	128	350	10	10
Number of Alphanumeric Presets				100	100
24 Character LCD Display		✓	✓	✓	✓
Colored Front Panel Option	✓	✓	✓	✓	✓
Encryption Options Board	✓	✓	✓	✓	✓
Economy Mode	✓	✓	✓	✓	✓
Fast Charger	✓	✓	✓	✓	✓
GPS Capability (External Speaker Mic) Note: Requires customised firmware, please contact your Tait customer support representative	✓	✓	√	√	✓
Non-Incendive (Optional)	✓	✓	✓	✓	✓
IP67 Certified	✓	✓	✓	✓	✓
Large PTT Button	✓	✓	✓	✓	✓
Li-Ion Battery as Standard	✓	✓	✓	✓	✓
Lone Worker	✓	✓	✓	✓	✓
Long Shift Life (11-14hrs, dependent on battery)	✓	✓	✓	✓	✓
Man Down (Optional)	✓	✓	✓	✓	✓
MEPS Approved Plug Pack	✓	✓	✓	✓	✓
Military Standards 810 C, D, E and F	✓	✓	✓	✓	✓
Multi View Indicator LED	✓	✓	✓	✓	✓
Multi Way Charger (Optional)	✓	✓	✓	✓	✓
Programmable Channel Selector	✓	✓	✓	✓	✓
Programmable Emergency Key	✓	✓	✓	✓	✓
Shared Accessories with other Tait Portables	✓	✓	✓	✓	✓
Side Mounted Accessories Connector	✓	✓	✓	✓	✓
Stainless Steel Antenna Connector	✓	✓	✓	✓	✓
Swipe Battery Contacts	✓	✓	✓	✓	✓
Two-shot Moulded Construction	✓	✓	✓	✓	✓
Voice Inversion Scrambler	✓	✓	✓	✓	✓
3 Programmable Function Keys - including Emergency Key	✓	✓	✓	✓	✓
Alphanumeric Labels			✓		✓
ANI (Automatic Number Identification)	Tx only	✓	✓		
Audible Indicator Control	✓	✓	✓	✓	✓
Auto Noise Reduction (ANR)	✓	✓	✓	✓	✓
Automatic call back				✓	✓
Auto Quiet Timer Countdown Select	✓	✓	✓		
Background search sequence				✓	✓
Busy Channel Lockout (Also known as Transmit Inhibit)	✓	✓	✓		
	✓	✓	✓	✓	✓
Call Diversion					L



TP8100 – Features Comparison

RADIO FEATURES	TP8110	TP8115	TP8120	TP8135	TP8140
Call in absence indicator				✓	✓
Call Queuing		✓	✓	✓	✓
Call time limit display				✓	✓
Caller ID		✓	✓		
CCDI (Computer Controlled Data Interface)	✓	✓	✓		
Channel Presets	✓	✓	✓	✓	✓
Conventional Channel Operation	✓	✓	✓	✓	✓
CTCSS (Continuous Tone Controlled Squelch System)	✓	✓	✓		
CTCSS on conventional channel (Trunked)				✓	✓
CTCSS on traffic channel (Trunked)				✓	✓
DCS (Tx only)				✓	✓
DCS (Digitally Coded Squelch)	✓	✓	✓		
Deferred Calling	✓	✓	✓		
DTMF (Dual Tone Multi Frequency)	✓	✓	✓		✓
Dynamic power control				✓	✓
Dynamic regrouping				✓	✓
Emergency Mode Auto Alert	✓	✓	✓		
Emergency Mode Auto Radio Reset	✓	✓	✓		
Emergency Mode Key-press Options	✓	✓	✓		
FFSK	✓	✓	✓		
Free Format Sequences	✓	✓	✓		
G-Star Signalling (Encode)	✓	✓	✓		
Join busy group				✓	✓
Key Beeps / Confidence Tones / Audible Indicators	✓	✓	✓	✓	✓
Key Lock	✓	✓	✓	✓	✓
LCD Contrast Adjust		✓	✓	✓	✓
MDC1200 (En/Decode)	✓	✓	✓		
Manual site select				✓	✓
Monitor Function	✓	✓	✓	✓	✓
Multiple network capability				✓	✓
Multiple SELCALL Networks	✓	✓	✓		
Network name				✓	✓
Night use		✓	✓	✓	✓
Nuisance Delete	✓	✓	✓		
Programmable Bandwidth	✓	✓	✓	✓	✓
Programmable Group Membership		✓	✓		
Programmable Group Tone	✓	✓	✓		
Programmable User Defined SELCALL Tone Set	√	/			
Programmable user Defined Selucial Lione Set	v	✓	✓		



TP8100 – Features Comparison

RADIO FEATURES	TP8110	TP8115	TP8120	TP8135	TP8140
Quiet interrogation	✓	✓	✓		
Quiet mode				✓	✓
Repeater talk-around	✓	✓	✓		
Scanning	✓	✓	✓		
Scanning/User programmable scan	✓	✓	✓		
SDM (Short Data Message) Transmit			✓		✓
SDM (Short Data Message) Receive		✓	✓	✓	✓
SELCALL (Selective calling)	✓	✓	✓		
Separate Rx alert/ring patterns	✓	✓	✓		
Side-tone generation	✓	✓	✓		
Short menu key		✓	✓	✓	✓
Squelch override	✓	✓	✓		
Status labels		✓	✓	✓	✓
Status labels - Control	✓	✓	✓		
Stun & Revive (Remote)	✓	✓	✓	✓	✓
Talker ID (MPT)				✓	✓
Transmit Lockout	✓	✓	✓		
Transmit Low Power	✓	✓	✓	✓	✓
Transmit Timer	✓	✓	✓	✓	✓
Trunked Channel Display				✓	✓
Type 99 Decode	✓	✓	✓		
Voting	✓	✓	✓		
Zones 15,20	✓	✓	✓		
CALL TYPES	TP8110	TP8115	TP8120	TP8135	TP8140
Advanced hunt routines				✓	✓
Broadcast group call				✓	✓
Conference group call				✓	✓
Emergency Call	✓	✓	✓	✓	✓
Group Calls	✓	✓	✓	✓	✓
Inter-fleet calls				✓	✓
PABX calls (Private Automatic Branch Exchange				✓	✓
Preset Calls	✓	✓	✓	✓	✓
Priority Call	✓	✓	✓	✓	✓
Programmable trunked ring patterns				✓	✓
PSTN calls (Public Switched Telephone Network)				✓	✓
Status calls				✓	✓
Top Mounted Programmable Emergency Call	✓	✓	✓	✓	√



NON-INCENDIVE (NI)

Overview

For greater safety in hazardous locations the Non-Incendive TP8100 portables are available with internationally recognized Factory Mutual[™] approvals. Both trunked and conventional portables in the TP8100 series can be supplied with NI features for use in hazardous environments. Manufactured to comply with internationally recognized Factory Mutual[™] (FM[™]) Approvals, the TP8100 is classed NI (Non-Incendive). Like the rest of the TP8100 series, the NI model is built to IP67 dust and water resistance standards, and is designed for the operation in harshest of environments. A full range of FM[™] approved accessories is also available, including rugged speaker-mics and noise cancelling headsets.

Tait Communications has the following Factory Mutual™ approval for the TP8100 NI portable product range:

- Non-Incendive for use in:
 - Class I
 - Division 2
 - Groups A, B, C & D with a temperature rating of T4 Ta=40°C
 - Class II & III
 - Division 1 or 2h
 - Groups E, F & G with a temperature rating of T4 Ta=40°C
 - Indoor & outdoor
 - IP67 Hazardous (classified) locations

Temperature Rating Code

Identifications Code	Maximum Temperature (°C)	Identification Code	Maximum Temperature (°C)
T1	450	T3A	180
T2	300	ТЗВ	165
T2A	280	T3C	160
T2B	260	T4	135
T2C	230	T4A	120
T2D	215	T5	100
Т3	200	T6	85

Note:

▶ Compliance shall be verified by measurement based on the highest temperature which may be attained in service under the most adverse conditions (but within rated values) by any part or surface of the equipment. The most adverse conditions include overloads and fault conditions recognized in the specific standard for the Type of Protection concerned.



Non-Incendive (NI)

Background

What is Non-Incendive?

Electrical equipment that is incapable of releasing sufficient electrical or thermal energy under normal operating conditions only
which cause ignition of a specific hazardous mixture and air. This rating is required for equipment to be used in Division 2
environments.

Non-Incendive approvals are classified by classes, divisions, groups and a temperature rating. These can be defined as follows:

Class

• this can be defined as relating to the industry type in which the equipment will operate. Classes range from Class I to Class III, where Class I is for such industries as petroleum/gas/oil etc., Class II is for such industries as heavy engineering (iron-ore, magnesium, coke, coal, charcoal, etc.) and the food industry (starch, grain processing, e.g. flour mills etc.) Class III is for industries dealing with fibres.

Division:

• this can be defined as relating directly to the proximity of the risk. That is, if the hazardous mixture is in direct contact with the environment (Division 1, closer proximity) or is it enclosed within a container or system, or ventilated (Division 2, further proximity).

Group

this is the type of atmosphere and ranges from Group A through to Group G. Group A covers atmospheres containing Acetylene gas
and Group B covers atmospheres containing Hydrogen gas. These are both very unstable and explode at low temperatures. Group C
covers vapours of Ethylene and Group D covers Propane vapour atmospheres. Group E includes atmospheres containing various
types of metal dust, Group F has coal dust, and Group G contains grain dusts.

Temperature rating:

- Temperature rating alone is probably the most important factor for NI hand-portables. The temperature rating is a maximum temperature (°F / °C) and an associated identification code. The temperature rating means that where any hazardous mixture explodes/combusts at less than the stated maximum temperature, then the hand-portable cannot be used in this environment. If units do not meet the temperature requirement then there is no basis for supplying radios regardless of whether or not the units meet the other standards i.e. class, division and group.
- It is important to note that Tait does not wish to advise the customer what ratings they would need for their work environment, as liability becomes an issue here. There are a number of publications which detail combustion thresholds of hazardous mixtures and the customer should research this themselves.



Non-Incendive (NI)

What Tait can offer

Tait Communications currently have both the following Factory Mutual™ Approval for the TP8100 Series NI product range (all bands and variants):

- Approved as Non-Incendive for use in Class I, Division 2, Groups A, B, C & D with temperature rating of T4 Ta=40°C
- ▶ Approved as suitable for use in Class II & III, Division 1, Groups E, F & G; temperature class T4 Ta=40°C; indoor & outdoor, IP67 hazardous (classified) locations.

What this means:

- Class I, Division 2 This is a location in which:
 - (a) volatile flammable gasses are handled, processed or used, but in which the hazardous liquids, vapours or gases will normally be confined within closed containers or closed systems from which they can escape only in case of accidental rupture or breakdown of such containers or systems, or in case of abnormal operation of equipment;

OR

• (b) in which hazardous concentration of gases or vapours are normally prevented by positive mechanical ventilation, and which might become hazardous through failure or abnormal operation of the ventilating equipment;

OR

- that is adjacent to a Class I, Division 1 location, and to which hazardous concentrations of such gases or vapours might occasionally be communicated unless such communication is prevented by adequate positive-pressure ventilation from a source of clear air, and effective safe-guards against ventilation failure are provided.
- ▶ Groups A, B, C, D, E, F & G: These are various atmospheres for which the Tait hand-portables are approved to operate in, in conjunction with the above information and are rated as follows:
 - Group A atmospheres containing acetylene gas
 - Group B atmospheres containing hydrogen gas
 - · Group C atmospheres containing ethylene vapours
 - Group D atmospheres containing propane vapours
 - Group E atmospheres containing metal dusts
 - Group F atmospheres containing carbonaceous dusts
 - Group G atmospheres containing organic dusts
- ► Temperature T4 Ta=40°C
 - Where any hazardous mixture explodes at less than 40°C, Tait hand-portables are not approved to operate in these environments.



Non-Incendive (NI)

Accessories

The TP8100 NI range of portables are only approved to be Non-Incendive when used in conjunction with the NI approved accessories and FM™ Approved battery packs.

- Batteries:
 - T03-24011-AAAA TP8100 Battery Li-Ion 1800mAh
 - T03-24011-ABAA TP8100 Battery -Li-Ion 1800mAh complete with Belt Clip

Note: If a customer has a requirement to charge their batteries within a hazardous environment, we cannot supply our chargers as these are NOT FM^{TM} Approved.

- Audio Accessories & Antennas
 - Please contact your Tait customer services representative.
- ▶ This certificate is issued for the following equipment:
 - T03-2400n-abcd, TP8100 Portable Radio
 - NI / I / 2 / ABCD / T4 Ta=40°C, IP67
 - S/II/III/2/EFG, IP67
 - n = software function / user interface: 1, 2, 3, 4, 5, 6
 - a = Frequency Band: B, C, D, E, F, G, H
 - b = Customer Variants: A-Z
 - c = Internal Options: A
 - d = Color: A, B, C, D
- Special Conditions of Use:
- 1. When used with Tait Communications battery pack (P/N T03-20011-AAAA).
- 2. The specific accessories & antenna options that may be used with the radios above are listed within the Tait Communications service manuals part number MPC-00003-xx.

Non-Incendive (NI)

Disclaimer

The following classification and rating details are only meant to be a guide for quick reference and Tait Communications makes no claims to the accuracy of the items in the appendix below:

- ▶ Group A atmospheres Atmospheres containing Acetylene gas.
- ▶ Group B atmospheres Atmospheres containing Hydrogen gas.
- ▶ Group C atmospheres Chemical (Ethylene based)
 - Acetaldehyde
 - Diethylamaine
 - Ethyl mercaptan
 - Tetrahydrofuran
 - Crotonaldehyde
- · Diethyl ether
- Hydrogen sulphide
- Epichlorohydrin
- 2-nitropropane
- (UDMH 1, 1-dimenthyl
- Hydrogen cyanide
- n-butyraldehyde
- Carbon monoxide
- Ethyl sulphide
- Unsymetrical dimethyl hydrazine)
- Allyl alcohol
- Morpholine
- Ethylenimine
- Cyclopropane
- Ethylene

- Group D atmospheres Chemical (Propane based)
 - Acetic acid
 - Acetone
 - Acrylonitrile
 - Ammonia
 - Benzene
 - Butane
 - Soprene
 - Isopropyl ether
 - Mesityl oxide
 - Methane (natural gas)
 - Methanol (methyl gas)
 - Toluene
 - Vinyl acetate
 - Vinyl chloride
 - Xylenes

- Ethylene diamine
- Ethylene dichloride
- Ethylene glycol monomethyl ether
- Gasoline
- Heptanes
- Propane
- Hexanes
- 1-propanol2-propanol
- Propylene
- Styrene
- Ethanol (ethyl alcohol)
- Ethyl acetate
- Ethyl acrylate (inhibited)

- 2-methyl-2-proponal
- Petroleum naptha
- Pyridine
- Octanes
- Pentanes
- 1-pentanol (amyl alcohol)
- 2-butanol (secondary butyl alcohol)
- n-butyl acetate
- Isobutyl acetate
- di-isobutylene
- Ethane 3-methyl-l-butanol
- Methyl ethyl ketone
- Methyl isobutyl ketone
- 2-methyl-l-proponal

For classification of areas involving ammonia atmosphere, see Safety Code for Mechanical Refrigeration (ANSI/ASHRAE 15-1978) and Safety Requirements for the Storage and Handling of Anhydrous Ammonia (ANSI/CGA G2.1-1972).

A Saturated hydrocarbon mixture boiling in the range of 20-135N C (68-275NF). Also known by the synonyms benzene, ligroin, petroleum ether or naphtha.

- Group E atmospheres Atmospheres containing metal dust, including aluminium, magnesium and their commercial alloys, and other metals of similarly hazardous characteristics.
- Group F atmospheres Atmospheres containing carbon black, charcoal or coke dusts which have more than 8 percent total volatile material (carbon black per ASTM D1620, charcoal, coal and coke dust per ASTM D271) or atmospheres containing these dusts sensitized by other materials so that they represent an explosion hazard.
- ▶ Group G atmospheres Atmospheres containing flour, starch, grain or combustible plastics or chemical dusts.

Note: Explanation of the above classes, divisions and atmospheres can be found in Article 500 of the United States National Electrical Code.



Encryption

For organizations that value the confidentiality of their information, Tait can now offer our TP8100 portable radios fitted with Midian™ encryption modules.

There are two levels of encryption depending on your customer's requirements:

- voice inversion encryption
 - protects against causal listeners and is cost-effective
- rolling code / frequency-hopping encryption
 - protects against more determined listeners

Applications

From a small company's competitive advantage through essential government information, we can now offer an encryption solution suitable for many different types of companies.

Public and private safety, Law enforcement, Government department, Security company, Service provider, Health service, Event management, Commercial business, Security company, Service provider & Media.

Specifications

Encryption modules can be fitted to TP8100 portable radios either when the product is first built, or as a simple upgrade to existing equipment provided the radio was purchased 'encryption ready'.

Tait can provide consultation and system design to ensure the complete integration of your encryption solution. For specifications on encryption module types, please see the encryption white paper, under the documentation section of the encryption resource CD.

Important

The sale of certain encryption products is subject to export controls. It is imperative that you consult with your local Tait Representative prior to offering any encryption product to a customer.



Encryption Type

For organizations that require confidentiality of their information, Tait offers TP8100 portable radios fitted with Midian™ encryption modules. These can be fitted at all frequencies. Please contact your Representative who will help you with an encryption solution from Tait.

Types of encryption offered by Tait

There are two levels of Encryption depending on the requirements;

- 1. Voice Inversion Encryption which protects against casual listeners, and
- 2. Rolling Code / Frequency Hopping Encryption which protects against more determined listeners.

FEATURES	MIDIAN™ TVS-2	
Encryption method	Hopping	
Hopping rate	6-12/Sec	
OTAP	No	
Codes available	Trillions	
Codes selectable	4	
Coded/Clear TX	Manual select	
Coded/Clear RX	Automatic	
Inter-operability	-	
Current drain	9Ma	
CTCSS supported	Yes	

FEATURES	MIDIAN™ TVS-2
Selcall	Yes
FFSK	Yes
Radio Enable/Disable	No
Change Encrypt codes	Yes
ANI	Yes
Emergency	Yes
Status	Yes
Change ANI/Group/Fleet	Yes
Force Coded/Clear	Yes

Frequently Asked Questions

What does a Tait encryption unit look like?

Tait encryption units are small circuit modules that fit inside our radios, and change the way speech is heard - garbling the transmitted audio, and reconstructing the received audio. Externally it is not evident that encryption is fitted to a radio.

How does the encrypted audio sound without a decrypter?

It still has the fluctuating volume of a speech signal, but like a totally foreign language with completely different phonetics - totally incomprehensible.

How easy is it to understand when decrypted?

There are some background noises but the main intelligibility of the speech is largely unaffected.

Do I need to replace all my radios?

Not necessarily. Your existing Tait radios may be able to be fitted with encryption.



Encryption Questionnaire

Encryption is a highly technical business. This questionnaire has been designed to help determine the system aspects of any encryption sale, and how they affect the equipment and services needed in order to ensure a satisfactory solution for your company and Tait. We ask that you complete this questionnaire before any orders are placed so that Tait can help fit you with the best possible solution. Please contact your Tait Representative for further information.

•	Company Name: Name:				
•	Contact Email: Contact phone:				
1.\	Who do you wisl	h to protect your voice communications from?			
		Casual listener			
		Technically equipped listener			
		Highly technical and determined eavesdropper			
2.	How many porta	able radios will require encryption in this application? Total number:			
3. \	Will all radios red	quire encryption functionality?			
		Full fleet Partial fleet			
4. /	Are all conversa	tions to be encrypted or only a selection?			
5. /	Are all radios as	signed to individuals or available from a pool resource?			
6.	Are radio users t	to be responsible for enabling/disabling encryption or is the encryption module required to process this automatically?			
7.	Do the radios ne	eed to have a selection of encryption codes available or just one code?			
	f multiple encryppatcher?	ption codes are required, are these to be available to the radio user via the radio user interface, or controlled via a central			
	s the customer a	a current user of voice encryption? If yes, what is the type of encryption currently being used? Please specify brand and lev			
	What type of ra	adio network (Conventional, Single-site MPT Trunked, Multi-site MPT Trunked) is being utilized in this application by these cribe.			
11.	What other sign	nalling will be used on this system (e.g. DTMF, PSTN, etc.)?			
12.	Does the radio	use ANI and if so, pre or post PTT?			
13.	Is CTCSS/DCS	S used, and if so, at what hertz/code?			
14.	Please describe	e which assignable key will support encryption. Enable/disable and if it is a short or long press.			
15.	Who will be res	sponsible for implementing the encryption solution (e.g. setting audio levels, etc.)			
16.	What audio acc	cessories, if any, are to be used with the terminal equipment (e.g. speaker mics, headsets, etc.)?			
17.	Who will be res	sponsible for training the end user?			
18.	What level of e	encryption is required?			
		Midian™ TVS-2 TAIT			
		Encryption ready			



TP8100

Intrinsically Safe Accessories

ITEM CODE	DESCRIPTION	
Battery		
T03-20011-AAAA	TP81 Battery – Li-lon 1880mAh IS	

Audio Accessories

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

ITEM CODE	DESCRIPTION		
Speaker Microphones			
T03-00119-ABAA	TP81 Speaker Microphone Profile 2.5mm-Jack		
T03-00045-DMAA	TP81/93/94 Speaker Microphone Genesis IP68 Emerge	ency-Button	
T03-00045-ERAA	TP31/33/81/93 Speaker Microphone Light-Weight 3.5ml	m-Jack	
T03-00045-FRAA	TP31/33/81/93 Speaker Microphone Medium-Weight 3.5	5mm-Jack	
T03-00045-JFAA	TP81/93/94 Speaker Microphone Evolution Emergency-	Button 2.5mm-Jack	
T03-00045-KFAA	TP81/93/94 Speaker Microphone Storm IP68 Emergence	cy-Button 2.5mm-Jack	
T03-10119-AAAA	TP81 Speaker Microphone Evolution GPS Emergency Button 2.5mm-Jack	Requires custom radio firmware. Contact your Tait customer support representative	
Ear Pieces			
T03-00053-0451	Earphone In-Ear 2.5mm		
T952-055	Earhanger 2.5mm		
T03-00120-AAAD	Eartube In-Ear 2.5mm		
T03-00120-AAAE	Eartube In-Ear 3.5mm		
T03-00120-BAAD	Earhook 2.5mm		
T03-00120-BAAE	Earhook 3.5mm		
T03-00120-FAAD	Eartube Earhook 2.5mm		
T03-00120-FAAE	Eartube Earhook 3.5mm		
T03-00120-GAAD	Earhook Transparent Hi-Volume 2.5mm		
T03-00120-GAAE	Earhook Transparent Hi-Volume 3.5mm		
T03-00120-HAAD	Earphone Transparent D-Ring Hi-Volume 2.5mm		
T03-00120-HAAE	Earphone Transparent D-Ring Hi-Volume 3.5mm		
Adaptors			
T03-00119-XAAA	TP81 Accessory Adaptor Hirose-6-Pin		
T03-00119-XBAA	TP81 Accessory Adaptor 7.5mm		

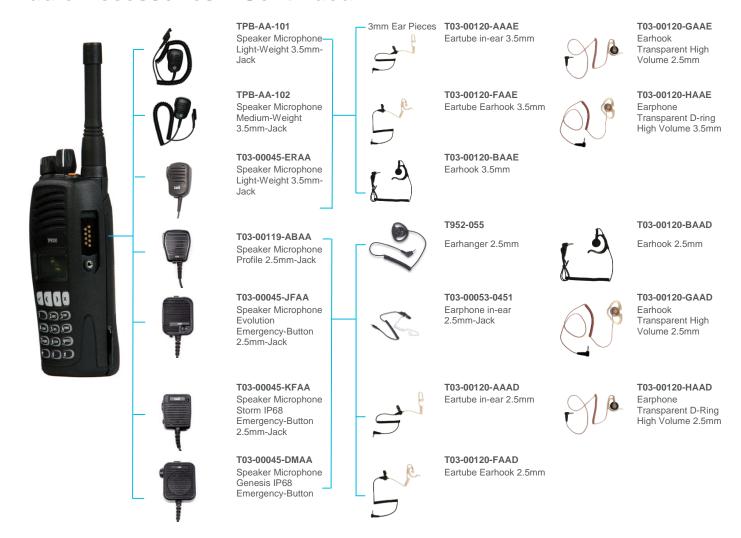


TP8100

ITEM CODE	DESCRIPTION			
Headsets				
TPB-AA-201	TP81 Headset Light-Weight Earphone Boom-Microphone Fing	TP81 Headset Light-Weight Earphone Boom-Microphone Finger-PTT		
TPB-AA-202	TP81 Headset Light-Weight Behind-Head Boom-Microphone	Finger-PTT		
T03-00046-FAAA	TP81/93/94 Headset Heavy-Duty Overhead			
T03-00046-FEAA	TP81/93/94 Headset Heavy-Duty Behind-Head			
T03-00046-GEAA	TP81/93/94 Headset Hurricane II Behind-Head			
TPA-AA-211	TP81/91 Headset Breeze Behind-Head Hirose-6-Pin			
T03-00120-CBBA	TP81/91 Headset Light-Weight Overhead Hirose-6-Pin	Require T03-00119-XAAA		
T03-00120-EEBA	TP81/91 Headset Heavy-Duty Overhead Hirose-6-Pin			
Surveillance Kits				
TPB-AA-203	TP81 Covert Kit Earhook Lapel-Microphone-with-PTT			
TPB-AA-204	TP81 Covert Kit Eartube-In-Ear Lapel-Microphone-with-PTT			
T03-00047-AAAA	TP81/93/94 2 Wire Surveillance Kit			
TPA-AA-213	TP81/91 3 Wire Surveillance Kit Hirose-6-Pin Beige	Require T03-00119-XAAA		
TPA-AA-221	TP81/91 2 Wire Surveillance Kit Hirose-6-Pin Black	Require 103-00119-XAAA		
Throat Microphones				
T03-00120-AFEA	TP81/91 Throat Microphone Hirose-6-Pin	Requires T03-00119-XAAA		
T03-00120-AFEG	TP81 Throat Microphone 7.5mm	Requires T03-00119-XBAA		
Skull Microphone				
T03-00120-KGAA	TP81/91 Skull Microphone Hirose-6-Pin	Requires T03-00119-XAAA		
Connector Kit				
TPB-AA-005	TP81 Accessory Connector Kit			
Replacement Parts				
TPA-AA-214	Earpiece Quick Disconnect Acoustic Tube - Set of 5			
TPA-AA-215	Flexible Open Ear Insert - Left Ear Small			
TPA-AA-216	Flexible Open Ear Insert - Left Ear Medium	Replacement parts for T952-051, T03-		
TPA-AA-217	Flexible Open Ear Insert - Left Ear Large	00047-AAAA, TPA-AA-213 & TPA-AA-		
TPA-AA-218	Flexible Open Ear Insert - Right Ear Small	221		
TPA-AA-219	Flexible Open Ear Insert - Right Ear Medium			
TPA-AA-220	Flexible Open Ear Insert - Right Ear Large			



TP8100





TP8100





TP8100





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Batteries & Chargers

ITEM CODE	DESCRIPTION		
Batteries			
T03-00011-AAAA	TP81/93/94 Battery - Standard Li-Ion 1880mAh		
T03-00011-CAAA	TP81/93/94 Battery - Performance Li-Ion 2400mAh		
Belt Clips			
TPA-CA-201	TP8/9 Belt Clip 55mm		
TPA-CA-208	TP8/9 Belt Clip Adaptor for 55mm Belt Clip Requires TPA-CA-201		
Chargers			
T03-00012-AAAA	TP81/93/94 Charger Single Fast Li-Ion no Plug Pack		
T03-00012-ABAA	TP81/93/94 Charger Single Fast Li-Ion ANZ Plug Pack		
T03-00012-ACAA	TP81/93/94 Charger Single Fast Li-Ion UK Plug Pack		
T03-00012-ADAA	TP81/93/94 Charger Single Fast Li-Ion EU Plug Pack		
T03-00012-AEAA	TP81/93/94 Charger Single Fast Li-Ion US/CAN Plug Pack		
T03-00013-AAAA	TP81/93/94 Charger Multi Li-Ion No Mains Cable		
T03-00013-ABAA	TP81/93/94 Charger Multi Li-Ion Wall Kit ANZ Mains Cable		
T03-00013-ACAA	TP81/93/94 Charger Multi Li-Ion Wall Kit UK Mains Cable		
T03-00013-ADAA	TP81/93/94 Charger Multi Li-Ion Wall Kit EU Mains Cable		
T03-00013-AEAA	TP81/93/94 Charger Multi Li-Ion Wall Kit US/CAN Mains Cable		
T03-00014-AAAA	TP81/93/94 Vehicle Charger Battery Only		
T03-00014-BAAA	TP81/93/94 Vehicle Charger		
TA3004-01 ¹	TP81/93/94 Transportable Multicharger Orange		
TA3004-02 ¹	TP81/93/94 Transportable Multicharger Silver		

^{1 -} Aus/NZ Compliance only. Contact CSD for availability and pricing in other regions



T03-00011-AAAA Standard Li-Ion 1880mAh Battery



T03-00012-AAAA Charger Single Fast Li-Ion no Plug Pack



T03-00014-AAAA TP81/93/94 Vehicle Charger Battery Only



T03-00014-BAAA TP81/93/94 Vehicle Charger



TA3004-01 TP81/93/94 Transportable Multicharger Orange



Antennas

ITEM CODE	DESCRIPTION
TPA-AN-034	TP8/9 Antenna 136-174MHz Helical
TPA-AN-001	TP8/9 Antenna 136-225MHz Helical Tuneable
TPA-AN-002	TP8/9 Antenna 136-151MHz Helical
TPA-AN-003	TP8/9 Antenna 150-162MHz Helical
TPA-AN-004	TP8/9 Antenna 162-174MHz Helical
TPA-AN-019	TP81 Antenna 340-390MHz Helical
TPA-AN-017	TP81 Antenna 350-400MHz Helical
TPA-AN-018	TP81 Antenna 350-400MHz ¼ Wave Whip
TPA-AN-027	TP8/9 Antenna 380-420MHz Helical
TPA-AN-013	TP8/9 Antenna 400-470MHz Helical
TPA-AN-011	TP8/9 Antenna 400-470MHz 1/4 Wave Whip
TPA-AN-015	TP8/9 Antenna 450-520MHz Helical
TPA-AN-012	TP8/9 Antenna 450-520MHz 1/4 Wave Whip
TPA-AN-028	TP8/9 Antenna 762-870MHz Helical
TPA-AN-022	TP8/9 Antenna 762-870MHz ½ Wave Whip
TPA-AN-024	TP81 Antenna 896-941MHz ¼ Wave Whip
TPA-AN-025	TP81 Antenna 893-941MHz ½ Wave Whip

TPA-AN-003

Antenna 150-162MHz Helical

TPA-AN-022

Antenna 762-870MHz ½ Wave Whip



TPA-AN-004

Antenna 162-174MHz Helical





TP8100 OPTIONS & ACCESSORIES

Carry Cases

ITEM CODE	DESCRIPTION	
Heavy Duty Leather		
T03-00133-ABBA	TP81 Carry Case Heavy Duty Leather 4Key D-Clip Belt Loop	
T03-00133-ABCA	TP81 Carry Case Heavy Duty Leather 16Key D-Clip Belt Loop	
Soft Leather		
T03-00133-BABA	TP81 Carry Case Soft Leather 4Key Use Battery Belt Clip	
T03-00133-BACA	TP81 Carry Case Soft Leather 16Key Use Battery Belt Clip	
Nylon		
T03-00133-CBBA	TP81 Carry Case Nylon 4Key D-Stud Belt Loop	
T03-00133-CBCA	TP81 Carry Case Nylon 16Key D-Stud Belt Loop	
T03-00133-CCBA	TP81 Carry Case Nylon 4Key Belt Loop	
T03-00133-CCCA	TP81 Carry Case Nylon 16Key Belt Loop	
Accessories		
T03-00038-0034	TP8/9 Shoulder Strap for Carry Case Heavy Duty Leather	For use with T03-00133-ABBA & T03-00133-ABCA
TPA-CA-201	TP8/9 Belt Clip 55mm	
TPA-CA-208	TP8/9 Belt Clip Adaptor for 55mm Belt Clip	Requires TPA-CA-201
TPA-CA-206	TP81/91 Belt Loop for D-Clip 55mm	
TPA-CA-207	TP81/91 Belt Loop for D-Clip 75mm	
T03-00038-0022	TP8/9 Belt Loop for D-Stud 55mm	
T03-00038-0023	TP8/9 Spring Clip for D-Stud 40mm	



T03-00133-ABBA - Carry Case Heavy Duty Leather 4Key D-Clip Belt Loop



T03-00133-BACA - Carry Case Soft Leather 16Key Use Battery Belt Clip



T03-00133-CBBA - Carry Case Nylon 4Key D-Stud Belt Loop



T03-00038-0034 - Shoulder Strap For Carry Case Heavy Duty Leather



TPA-CA-201

TPA-CA-208 Belt Clip 55mm



Belt Clip Adaptor for 55mm Belt Clip



TPA-CA-206

Belt Loop for D-Clip 55mm



TPA-CA-207

Belt Loop for D-Clip 75mm



T03-00038-0022

Belt Loop for D-Stud 55mm



T03-00038-0023

Spring Clip for D-Stud 40mm



TP8100

Programming & Service Accessories

ITEM CODE	DESCRIPTION	
T950-001	USB 1.1 to Serial DB9 Adaptor	
T03-00011-FAAA	TP81/93/94 DC Service Adaptor	
T03-00118-0101	TP81/93/94 Programming Adaptor Note: Included in the T03-00118-5101 programming kit	
T03-00118-5101	TP81 Programming Kit	
T03-00118-0601	USB to RJ11 Programming Cable	
T03-00118-0201	TP81/93/94 Calibration Adaptor	
T03-00118-0202	TP81/93/94 Calibration Low Pass Filter	
TOPA-SV-024	Terminals Calibration Box	
T03-00118-5301	TP81 Assembly Tool Kit	
TPA-SV-006	TP8/9/TM8/9/TB7 Radio Programming Lead - Serial PC to RJ12 Note: Included in the T03-00118-5101 programming kit	
TOPA-SV-006	TP RF Service Lead	
T03-00040-0001	TP81/TP93/TP94 Service Kit — (Includes T03-00011-FAAA, T03-00118-0101, T03-00118-0202, T03-0118-0601, T03-00118-5301. TOPA-SV-006, TOPA-SV-024)	