



# TAIT ORCA 5040

TRUNKED

The **Tait Orca 5040** trunked radio is in a class of its own. This rugged, sleek radio is packed with all the features you need in a **high performing** trunked radio.





# TAIT

## Radio Communications

### TAIT ORCA 5040

#### ORCA 5040 FEATURES

- > 100 Alphanumeric Presets
- > 3 Programmable Function Buttons
- > 10 Conventional Channels
- > MPT Signalling Standards
- > Handset Operation
- > Keypad Lock
- > Battery Charge Indicator
- > Menu System
- > Call Queuing (20 Calls)
- > One Touch Call
- > Alpha Status Calls
- > Monitor Function
- > Emergency Mode & SOS
- > Power Saving Modes
- > Remote Stun & Revive
- > PSTN and PABX Calls
- > Multiple Networks
- > Receive Short Data Messages
- > Audio Noise Reduction
- > Channel Knob Disable
- > Lone Worker

#### OPTIONS

- > Intrinsically Safe
- > Encryption

#### ACCESSORIES

- > D-clip and Belt Loop
- > Belt Clips
- > Lapel Speaker Microphones
- > Desktop Charger
- > 6-Way Multi-charger
- > Carry Cases
- > Universal Accessory Interface
- > Full Car Kit

#### BATTERY OPTIONS

- > 1500mAh NiCd
- > 2000mAh NiMH

#### GENERAL

Specification	66-88MHz	VHF (136-174MHz)	UHF (400-470, 450-530MHz)
Channel Spacing	12.5/20/25	12.5/20/25	12.5/20/25
Operating Temperature	-20°C to +60°C	-30°C to +60°C	-30°C to +60°C
Transmit Power	1, 2.5, 5 W	1, 2.5, 5 W	1, 2.5, 4 W
Power Supply	7.5 Volts	7.5 Volts	7.5 Volts
Frequency Increments	5 or 6.25kHz	5 or 6.25kHz	5 or 6.25kHz
Frequency Stability	+/- 10ppm (-10°C to +60°C) +/- 15ppm (-10°C to -20°C)	+/- 2.5ppm (-30°C to +60°C)	+/- 2.5ppm (-30°C to +60°C)

#### TRANSMITTER

Specification	66-88MHz	VHF (136-174MHz)	UHF (400-470, 450-530MHz)
Measurements as per:	ETS 300-086	ETS 300-086	ETS 300-086
Power Output (Low/Mid/High)	1 / 2.5 / 5W	1 / 2.5 / 5W	1 / 2.5 / 4W
Spurious Emissions (Conducted and Radiated)	< -36dBm (0-1GHz), < -30dBm (1-4GHz)	< -36dBm (0-1GHz), < -30dBm (1-4GHz)	< -36dBm (0-1GHz), < -30dBm (1-4GHz)
Hum and Noise (EIA)	38dB (NB), 43dB (WB)	36dB (NB), 42dB (WB)	35dB (NB), 41dB (WB)
Modulation Type	Direct FM	Direct FM	Direct FM
Deviation Limiting	Adjustable up to +/- 5kHz	Adjustable up to +/- 5kHz	Adjustable up to +/- 5kHz
Audio Response (300Hz - 2.55kHz)	Within +1/-3dB of 6dB / Octave Pre-emphasis	Within +1/-3dB of 6dB / Octave Pre-emphasis	Within +1/-3dB of 6dB / Octave Pre-emphasis
Distortion (EIA)	<5% @ 1kHz, 60% Deviation	<5% @ 1kHz, 60% Deviation	<5% @ 1kHz, 60% Deviation

#### RECEIVER

Specification	66-88MHz	VHF (136-174MHz)	UHF (400-470, 450-530MHz)
Measurements as per:	ETS 300-086	ETS 300-086	ETS 300-086
Intermediate Frequencies	21.4MHz and 455kHz	21.4MHz and 455kHz	45.1MHz and 455MHz
Sensitivity 12dB SINAD	< -119dBm	< -119dBm	< -119dBm
Sensitivity 20dB SINAD	< -114dBm	< -114dBm	< -114dBm
Fixed Squelch Sensitivity	12dB SINAD or 16dB SINAD Nominal	12dB SINAD or 16dB SINAD Nominal	12dB SINAD or 16dB SINAD Nominal
Selectivity	70dB (NB), 75dB (WB)	70dB (NB), 75dB (WB)	66dB (NB), 72dB (WB)
Spurious Response	70dB	70dB	70dB
Intermodulation	65dB	65dB	65dB
Blocking	94dB	94dB	94dB
Ultimate Signal to Noise Ratio (EIA)	39dB (NB), 44dB (WB)	37dB (NB), 42dB (WB)	34dB (NB), 40dB (WB)
Audio Response (300Hz - 2.55kHz)	Within +1/-3dB of 6dB / Octave De-emphasis	Within +1/-3dB of 6dB / Octave De-emphasis	Within +1/-3dB of 6dB / Octave De-emphasis
Distortion (EIA)	<5% @ 1kHz, 60% Deviation	<5% @ 1kHz, 60% Deviation	<5% @ 1kHz, 60% Deviation
Rated Audio Output	>500mW	>500mW	>500mW



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Professional Radio & Paging Communication Specialists

TAIT AUTHORISED DEALER

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purpose only. For further information please check with your nearest Tait office or authorised dealer. The radio meets applicable regulatory requirements.

