



PD405

> Rugged and reliable migration radio, dual mode analogue and digital, louder and clearer communications

VOICE CALL

Voice communication includes private, group and all call.

ANALOGUE AND DIGITAL MIXED CHANNEL

Can detect both analogue and digital signal and automatically switch between the modes to receive it on a single channel. Can also reply to the received call while the talk back timer remains.

VOICE OPERATED TRANSMIT (VOX)

The VOX feature allows you to trigger the voice transmission by voice directly rather than PTT. This brings convenience to you in radio use.

RUGGED AND RELIABLE

It is compliant with MIL-STD-810 C/D/E/F/G standards and IP54.

PREPROGRAMMED TEXT MESSAGES AND ONE TOUCH CALL/TEXT

Supports One Touch features that comprise of Voice Calls and Preprogrammed Text Messages.

DMRA DIRECT MODE TDMA

DMO can provide 2-slot communication which allows for 2 talk paths on 1 frequency.

SMALL, SLEEK, LIGHT

With dual-colour injection, the size is 112x55x31mm and weight is 270g.

LONG BATTERY LIFE

In digital mode, PD405 operates at least 16 hours under a duty cycle of 5-5-90 @ 1500mAh.



> PD405 useful for factories



> PD405 useful for security

DESIGN FEATURES



STANDARD ACCESSORIES

> Li-Ion Battery > Belt Clip > General MCU Rapid-rate Charger > Short Antenna > Switching Power Adapter > Hand Strap

OPTIONAL ACCESSORIES



HANDSET SPECIFICATIONS

GENERAL

Frequency Range	UHF: 400-470MHz, VHF: 136-174MHz
Channel Capacity	32
Zone Capacity	3
Channel Spacing	25/12.5KHz
Operating Voltage	7.4V
Battery	1500mAh (Li-Ion) 2000mAh (Li-Ion)
Battery Life	Analogue/Digital: 12/16 hours (1500mAh) 16/22 hours (2000mAh)
Weight	270g
Dimensions	112x54x28mm
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω

RECEIVER

Sensitivity – Digital	0.22μV / BER 5%
Sensitivity – Analog	0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD) 0.22μV (12dB SIN AD)
Adjacent Selectivity – TIA-603	60dB @ 12.5KHz/70dB @ 25KHz
Adjacent Selectivity – ETSI	60dB @ 12.5KHz/70dB @ 25KHz
Intermodulation – TIA-603	70dB @ 12.5/25KHz
Intermodulation – ETSI	70dB @ 12.5/25KHz
Spurious Response Rejection – TIA-603	70dB @ 12.5/25KHz
Spurious Response Rejection – ETSI	65dB @ 12.5/25KHz
Hum and Noise	40dB @ 12.5KHz 45dB @ 25KHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤3%
Audio Response	+1 ~ -3dB
Conducted Spurious Emission	<-57dBm

TRANSMITTER

RF Power Output	VHF High Power: 5W VHF Low Power: 1W UHF High Power: 4W UHF Low Power: 1W
FM Modulation	11K0F3E @ 12.5KHz 16K0F3E @ 25KHz
4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD 12.5KHz Data and Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm < 1GHz, -30dBm > 1GHz
Modulation Limiting	±2.5KHz @ 12.5KHz ±5.0KHz @ 25KHz
FM Hum & Noise	40dB @ 12.5KHz 45dB @ 25KHz
Adjacent Channel Power	60dB @ 12.5KHz, 70dB @ 25KHz
Audio Response	+1 ~ -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361-1,-2,-3

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)
Dustproof & Waterproof	Ip55 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

T +44 (0)1773 570123

F +44 (0)1773 570155

E SALES@ZYCOMM.CO.UK

WWW.ZYCOMM.CO.UK

ZYCOMM ELECTRONICS LIMITED

NOTTINGHAM ROAD

RIPLEY

DERBYSHIRE DE5 3AS

