

P3300 Portable

VHF, UHF

The P3300 portable is a digital two-way radio that provides

- Support for Multiple Applications
- Project 25 Interoperability
- High Performance



The P3300 portable provides digital voice to meet a wide range of applications and user requirements.

One Radio for Multiple Applications

The P3300 uses a high-speed digital signal processor and the latest RF components to support multiple applications in one package:

- Project 25 (P25) Digital Conventional
- P25 Trunking
- Analog Conventional

High Performance

The P3300 has a lightweight and robust mechanical package that provides reliable performance in demanding environments.

Flexible and Capable Operation

With its software-based design, the P3300 portable is readily configurable and easily expandable.

Project 25 Interoperability

The P3300 portable is Project 25 compliant and provides P25 trunking and P25 digital conventional operation. The portable facilitates unencrypted digital interoperability with other Project 25 users during critical communications situations.

Simple to Use

User controls are arranged for ease of operation with several programmable options. The top panel features a rotary On-Off-Volume control, emergency button, and status LED. Side buttons include voice PTT and two programmable buttons. The

front of the radio has four programmable function buttons and a 12-button DTMF keypad.

Alphanumeric Display

The multi-line 12-character alphanumeric liquid crystal display (LCD) presents icons and text that are large and easy to read.

Accessory Connector

An accessory connector is provided on the top panel of the portable. A wide range of accessories is available for use with the P3300 portable.

For More Information

For more information about this or any other M/A-COM product from Tyco Electronics Wireless Network Solutions, call toll free in the U.S. or Canada 800-368-3277. From outside the U.S. call +1-434-455-6403.

General Specifications

Dimensions (H x W x D):

(Without Knobs and Antenna)

With battery:

5.78 x 2.67 x 1.69 in.
(147 x 68 x 43 mm)

Weight (with Battery):

NiCd (1700 mAh):

16.2 oz (459g)

NiMH (2700 mAh):

17.7 oz (501g)

Li-Ion (3000 mAh):

14.4 oz (408g)

Operating Temperature:

-22 to +140°F

(-30 to +60°C)

Color (case):

Black

Options and Accessories

Batteries, single-unit rapid charger, 6-unit multi-charger, carrying case, and speaker microphone.

Transmitter

	VHF	UHF
Frequency Range (MHz):	136-174	335-400, 400-480, 440-520
Rated RF Power (W):	5	5
Frequency Stability (-30 to +60°C; +25°C Ref) (ppm):	2.5	2
FM Hum and Noise:	>40 dB (12.5 kHz), >45 dB (25 kHz)	>40 dB (12.5 kHz), >45 dB (25 kHz)
Spurious Emissions:	<0.25µW<1GHz <1.0µW 1GHz – 4 GHz	<0.25µW<1GHz <1.0µW 1GHz – 12.75 GHz
Channel Spacing (kHz):	25 (wideband), 12.5 (narrowband)	25 (wideband), 12.5 (narrowband)
Channels:	1000	1000
Systems:	64 (250 channels per system)	64 (250 channels per system)

Receiver

	VHF	UHF
Frequency Range (MHz):	136-174	335-400, 400-480, 440-520
Analog Sensitivity (12 dB SINAD):	0.3µV	0.3µV
Adjacent Channel Selectivity @ 25 kHz (dB):	>73	>73
@12.5 kHz (dB):	>65	>65
Intermodulation (dB):	>65 (ETS Method)	>65 (ETS Method)
Spurious Responses (dB):	70 (ETS Method)	70 (ETS Method)
Rated Audio Output (mW):	500	500
Audio Distortion:	<5%	<5%

Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810F*	Low Pressure	500.4/1
	High Temperature	501.4/1,2
	Low Temperature	502.4/1,2
	Temperature Shock	503.4/1
	Humidity	507.4/2
	Blowing Dust	510.4/1
	Vibration	514.5/1
	Shock (Functional/Basic)	516.5/1
	Shock (Transit Drop)	516.5/4

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

Digital Operation

Vocoding Method:	Improved MultiBand Excitation (IMBE™)
Modulation:	C4FM for P25

Regulatory Data

Frequency Range (MHz)	RF Output (W)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number*	Applicable Industry Canada Rules
136-174	5	STZSRP9100AC	Part 22, 90	7068A-P9100AC	RSS-119
400-480	5	STZSRP9100TU	Part 22, 90	7068A-P9100TU	RSS-119
440-520	5	STZSRP9100UW	Part 22, 90	7068A-P9100UW	RSS-119