

TK

5230/5330/5430

VHF · UHF · 700/800 MHz

P25 PHASE 1 & 2 · LTR

Compact P25 Phase 1/Phase 2 radio with large transfective color display, built-in GPS & Bluetooth® is a great fit for public works or public safety agencies looking for a smaller feature rich radio.



Features

- Digital operation in P25 Phase 1 & Phase 2
- P25 Phase 1 Conventional/Trunked Operation (standard)
- Mixed Digital, FM Analog & LTR Operation allows migration in mixed sites
- Large, color 1.74" (240 x 180 pixels) Transfective TFT Display for better use in direct sunlight & with use of polarized sunglasses
- Easy to follow GUI for at-a-glance operational status checking & multi-line text
- 4-way Directional-pad (D-pad) & 2-Position Lever Switch for intuitive control
- Built-In GPS Receiver/Antenna for effective fleet management
- Bluetooth® Module built-in for hands-free operation
- Renowned audio quality with Active Noise Cancelling that uses built-in DSP with two microphones for suppression of ambient noise (dual-mic)
- Built-in 56-bit DES Encryption (4-key DES standard)
- Optional 256-bit AES Encryption
- Built-in motion sensor for life-critical man down detection
- microSD/microSDHC Memory Card Slot for increased voice & data memory capacity
- IP67 & MIL-STD-810 C/D/E/F/G
- Full key models (with numeric keypad) & standard key models (without numeric keypad)
- 1 W loudspeaker audio

Accessories

Complete line of accessories including microphones, speakers & antennas. Download the accessory catalog at www.efjohnson.com/products/accessories.

Digital - P25 Mode

- P25 Phase 1 Conventional/Trunked Operation (standard)
- P25 Phase 2 Trunked Operation
- AMBE+2™ Enhanced Vocoder
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- P25 GPS Location
- Over-the-Air Programming¹

Analog Modes - General

- Conventional & LTR Zones
- NPSAPAC (USA only) Channels (±4.0 Modulation)
- MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit
- QT / DQT & Two-Tone
- Built-in Voice Inversion Scrambler

Intelligent Battery System (Option)

- System consists of optional high-capacity Li-Ion Battery Series (KNB-L1/L2/L3), Rapid Charger (KSC-Y32), & Battery Reader (KAS-12) software Up to 30 rapid chargers can be chain-connected to PC installed with KAS-12 Battery conditions displayed in color illuminated indicators on the charger & also displayed on connected PC with same color scheme Up to 1,000 batteries can be managed at a time (requires additional option)

TK-5230/5330/5430 Portable Specifications

General		TK5230	TK5330	TK5430
Frequency Range		136-174 MHz	Type 1: 450-520 MHz Type 2: 380-470 MHz	RX: 763-776, 851-870 MHz TX: 763-776, 793-806, 806-825, 851-870 MHz
Max. Channels Per Radio		1024 (Up to 4000 channels with option)		
Number of Zones		128		
Max. Channels Per Zone		512		
Channel Spacing	Analog	12.5/15/20/25*/30* kHz	12.5/25* kHz	12.5/25 kHz
	Digital	12.5 kHz	12.5 kHz	12.5 kHz
Power Supply		7.5 V DC \pm 20%		
Battery Life (5-5-90/10-10-80 duty cycle)	KNB-L1 (2,000 mAh)	10 hours / 6.5 hours		
	KNB-L2 (2,600 mAh)	12.5 hours / 8.5 hours		
	KNB-L3 (3,400 mAh)	17 hours / 11 hours		
Operating Temperature		-22 °F to +140 °F (-30 °C to +60 °C)		
Frequency Stability		\pm 2.0 ppm	\pm 1.0 ppm	\pm 1.5 ppm
Dimensions (W x H x D) Projections Not Included	KNB-L1 (2,000 mAh)	2.28 x 5.47 x 1.44 in. (58 x 139 x 36.5 mm)		
	KNB-L2 (2,600 mAh)	2.28 x 5.47 x 1.56 in. (58 x 139 x 39.5 mm)		
	KNB-L3 (3,400 mAh)	2.28 x 5.47 x 1.77 in. (58 x 139 x 44.9 mm)		
Weight (Dim. & Weight with Battery)	KNB-L1 (2,000 mAh)	13.5 oz (382 g)		
	KNB-L2 (2,600 mAh)	14.3 oz (406 g)		
	KNB-L3 (3,400 mAh)	15.8 oz (449 g)		
Receiver		TK-5230	TK-5330	TK-5430
Sensitivity	P25 Digital (5% BER)	0.25 μ V		
	P25 Digital (1% BER)	0.40 μ V		
	Analog (12 dB SINAD)	0.25 μ V		
Selectivity	P25 Digital	60 dB		
	Analog @ 12.5 kHz	67 dB		64 dB
	Analog @ 25 kHz		73 dB	
Intermodulation		73 dB		75 dB
Spurious Rejection		80 dB	75 dB	
Audio Distortion		3%		
Audio Output Power		500 mW/8 Ω (3% Distortion)/1,000 mW/8 Ω (5% Distortion)		
Transmitter		TK-5230	TK-5330	TK-5430
RF Power Output Power		6 to 1 W	5 to 1 W	3 to 1 W
Spurious Emission		-70 dB		
FM Hum & Noise	Analog @ 12.5 kHz	40 dB		
	Analog @ 25 kHz	45 dB		
Audio Distortion		2%		
Emission Designator		16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W		16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W

Mil Standard	810C	810D	810E	810F	810G	Mil Standard	810C	810D	810E	810F	810G	International Protection Standard	
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II	Humidity	507.1/ I, II	507.2/ II, III	507.3/ I, III	507.4	507.5/ II	Dust & Water	IP54, IP55
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II	Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5		
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II	Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I	Immersion	IP67**/68***
Temp. Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I	Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I		
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I	Shock	516.2/ I, II, V	516.3/ I, IV	516.4/ I, IV	516.5/ I, IV	516.6/ I, IV		
Rain	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III	Immersion	-	-	-	512.4/ I	512.5/ I		

*25/30 kHz in VHF/UHF Bands (except T-Band) are not included in the models sold in the USA or US territories. **IP67/68 - Must have the Speaker Mic Universal connector or Universal connector protector connected. **IP68 = 1m/2H All specifications are subject to change without notice. Please check the website for the latest version. V02.15.19 © Copyright 2017-2019 EF Johnson Technologies, Inc. (E.F. Johnson Company is operating entity) AMBE+2™ is a trademark of Digital Voice Systems Inc. SD and microSD are trademarks of SD-3C, LLC in the United States, and/or other countries. The Bluetooth word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc.

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