MDH06RDN9WA2AN

MOTOTRBO R7 UHF FKP

UHF Radio

- ✓ 400-527 MHz
- ✓ 1000 Channels
- ✓ Display with up to 10 lines of text
- ✓ 2200mAh IMPRES Slim Battery
- ✓ DINC (Dual Input Noise Cancellation)
- ✓ IP66
- ✓ IP68

Radio   ⌇⌇ UHF/VHF   ☁ IP66   ♫ HD Voice   ▥ Active Noise Cancelling

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Description

MOTOTRBO R7 UHF FKP is a digital portable two-way radio that offers loud, clear, and customizable audio in a rugged, dependable, and connected device. Its advanced audio processing ensures that your voice is always understood, while the rugged construction is ready for the toughest environments. Its modern, intuitive user experience and sleek ergonomic form factor make it comfortable to both hold onto and use during the most demanding conditions.

MOTOTRBO R7 UHF FKP

Built rugged, developed for maximum uptime, and ready to connect your team, the MOTOTRBO R7 UHF FKP two-way radio is designed to perfectly meet the needs of the maritime industry. It is tested to stringent military standards and is rated to IP66 and IP68 for maximum robustness. MOTOTRBO R7 UHF FKP has disinfectant and decontamination substance resistant housing and a robust, corrosion-proof side connector.

The MOTOTRBO R7 UHF FKP features up to 28 hours of battery life, IMPRES technology, and intelligent audio. Additionally, built-in security features and over-the-air programming minimize device downtime. With a programmable

loudness up to 107 phons, adaptive dual microphone noise suppression, and automatic acoustic feedback suppression, you can be certain of clear communication in critical environments.

Note: This is the full keypad option for the R7 with a 2.4" 320 x 240 px. QVGA display and up to 10 lines of text. It is Bluetooth, WiFi and GNSS capable as an additional license option.

Specifications

GENERAL SPECIFICATIONS

Display	2.4" 320 x 240 px. QVGA display, with up to 10 lines of text
Channel Spacing	12.5 kHz, 20 kHz, 25 kHz
Channel Capacity	1000
Dimensions (H x W x D)	132 x 56 x 35 mm
Weight	316 g
Digital / Analogue Battery Life	19 / 14.5 hrs
Operating Temperature	-20 °C to 60 °C
FCC Description	AZ489FT7143
IC Description	109U-89FT7143

TRANSMITTER SPECIFICATIONS

4FSK Digital Modulation	12.5 kHz Data Only: 7K60F1D & 7K60FXD , 12.5 kHz Data & Voice: 7K60F1E & 7K60FXE, Combination of 12.5 kHz Voice and Data: 7K60F1W
Digital Protocol	ETSI TS 102 361-1, -2, -3, -4 , DMR Tier II, III
Conducted/Radiated Emissions (TIA603D)	-36 dBm < 1 GHz , -30 dBm > 1 GHz
Adjacent Channel Power	60 dB @ 12.5 kHz, 70 dB @ 20 kHz / 25 kHz
Frequency Stability	+/-0.5 ppm

RECEIVER SPECIFICATIONS

Analogue Sensitivity (12dB SINAD)	0.16 µV (typical)
Digital Sensitivity (5% BER)	0.14 µV (typical)
Intermodulation (TIA603D)	70 dB
Adjacent Channel Selectivity, (TIA603A)-1T	60 dB @ 12.5 kHz, 70 dB @ 20 kHz / 25 kHz
Adjacent Channel Selectivity, (TIA603D)-2T	45 dB @ 12.5 kHz , 70 dB @ 20 kHz / 25 kHz
Spurious Rejection (TIA603D)	70 dB

AUDIO SPECIFICATIONS

Digital Vocoder Type	AMBE+2
Audio Response (TIA603D)	+1, -3 dB
Audio Output Power (Rated/Max)	1 W / 3 W
Audio Distortion at Rated Audio	≤1.5%
Maximum Speech Loudness by Default (ISO5326)	102 phon @ 30 cm
Maximum Programmable Speech Loudness (Extra Loud Mode, Level 3)	107 phon @ 30cm
Hum and Noise	-40 dB @ 12.5 kHz , -45 dB @ 20 kHz / 25 kHz
Conducted Spurious Emissions (TIA603D)	-57 dBm

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ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 °C to 85 °C
Storage Temperature	-40 °C to 85 °C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
Electrostatic Discharge	IEC 61000-4-2 Level 4
Dust and Water Intrusion	IP68 (submersion up to 2m, 2hrs) IP66 for high pressure-water resistance per IEC 60529
Salt Fog	5% NaCl for 8 hrs at 35 °C, 16 hrs standing
Packaging Test	MIL-STD 810D and E