

Digital covert radio

FCR-3441



Key benefits:

- Covert use
- Dimensions: 100x56x25mm
- Silent Call (Vibro)
- 16 channels
- Programmable power output (1-5 W, 1-4 W)
- GLONASS / GPS

Features:

- Analogue and ETSI DMR Standards compliant
- Direct mode and repeater mode
- Private, group and all-call capability
- GLONASS / GPS
- Data receive / transfer
- Programmable power output (1-5 W, 1-4 W)
- IP Site Connect
- Capacity Plus (single site)
- Capacity Plus (multi site)
- Capacity Max*
- Basic and enhanced privacy (ARC 4, AES 256*)
- Operation-critical voice and data communications managed on MOTOTRBO Control Room Solutions, including TRBOnet Enterprise and TRBOnet Watch dispatch applications
- Over-the-air programming
- Restricted access to system
- IMPRES battery management
- Analog/ digital channel scanning
- Programmable frequency
- VOX capability
- Text to speech*
- Bluetooth
- Transmit interrupt
- Russian language CPS
- MDC (cording /decoding), Quik-Call II (cording / decoding), DTMF (cording)
- Voice announcement as channel announcement during the radio triggers the channels. The pre-recorded content is available in multiple languages, incl. Russian
- Radio disable/enable
- Remote monitor
- Silent call and tone call switching

*Optional features. The license required

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General specification	
Parameter, unit	Value
Frequency, MHz FCR3441-PP100 FCR3441-PP400	146-174 403-450
Channel spacing, kHz	12,5 / 20/ 25
Channel capacity	16
Power supply, V	7,5 (nominal)
Dimensions, HxWxD, mm	100x56x25
Weight, g	254
Operational Time approximately, Hrs (standard Li-Ion 1700 mAh life, 5/5/90 profile at maximum transmit power with GLONASS / GPS, Bluetooth disable)	
Analog	12
Digital	16

Transmitter specification	
Parameter, unit	Value
Power output, W: FCR3441-PP100 FCR3441-PP400	1-5 1-4
Frequency stability, ppm	± 0,5
Digital vocoder type	AMBE+2™
Audio distortion at rated audio, %	3
Digital protocol	ETSI TS 102 361 -1,-2,-3
4FSK Digital modulation	12.5 kHz Data: 7K60F1D and 7K60FXD 12.5 kHz Voice: 7K60F1E and 7K60FXE Combination of 12.5 kHz Voice and Data: 7K60F1W
Modulation limiting, kHz	± 2,5 (12,5 kHz)
	± 4,0 (20 kHz)
	± 5,0 (25 kHz)
Hum and noise, dB, up to	- 40 (12,5 kHz)
	- 45 (20/25 kHz)
Adjacent channel selectivity, dB, min	60 (12,5 kHz)
	70 (20/25 kHz)
Conducted/radiated emissions, dBm, up to	-36 < 1 GHz
	-30 > 1 GHz

Receiver specification	
Parameter, unit	Value
Frequency stability, ppm	± 0,5
Analogue sensitivity (12dB SINAD), uV	0,16
Digital sensitivity (5% BER), uV	0,14
Intermodulation, dB, min	65
Adjacent channel selectivity, dB, min	60 (12,5 kHz) 70 (20/25 kHz)
Spurious rejection, dB, min	70
Rated audio, W	0,5
Audio distortion at rated audio, %	3
Harm and noise, dB	-40 (12,5 kHz) -45 (20 kHz)
Conducted spurious emissions, dBm, up to	-57

GNSS specification	
Constellation support	GLONASS, GPS
Time to first fix, Cold Start	< 60 s
Time to first fix, Hot Start	< 10 s
Horizontal accuracy	< 5 m

Bluetooth specification	
Version	4.0
Range	Class 2, 10 m
Supported profiles	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk
Simultaneous connections	1 x audio accessory and 1 x data device
Permanent discoverable mode	Optional

Environment specification	
Dust and water intrusion	IP54
Operating temperature, °C	-25 / +50
Storage temperature, °C	-50 / +50

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