



# KR600T

## DMR Trunking Transceiver



With central node switch, dispatching system, NMS system and recording system, KR600T provides voice, data, location, recording dispatch and management. All IP architecture and distributed network structure can reduce the amount of data exchanged in the center. The system provides high spectral efficiency, wide coverage, flexible networking, high cost effectiveness and high security.

## System Key Features

High Performing tough and resilient KR600T Transceivers for mission critical and non-mission critical networks with 100% duty cycle.



## Key Trunking System Features

- Ultra-narrowband 6.25kHz equivalent technology for DMR
- 2 xTDMA channels in one 12.5kHz channel for both voice and data
- Class leading distributed controller software architecture
- Efficient system infrastructure scalability based on IP connectivity
- OTAP over the air subscriber unit programming
- Detailed alarm monitoring and reporting of critical system parameters High availability fail-over between network components
- Software upgradeable to add new features and functionality
- Rugged construction with efficient front-to-rear fan-forced cooling
- 19-inch rack design facilitates simple installation and maintenance

## Voice and Data Features

- Individual calls
- Group calls
- Calls to all users
- Broadcast calls
- Emergency calls
- PSTN / PABX calls
- Semi-duplex calls
- Text & status message
- GPS & Packet data transmission
- Support of call priorities & emergency call
- Supporting services e.g.late entry to an existing call

## SPECIFICATIONS

### General

Frequency Range	136-174MHz, 350-400Mhz, 400-470MHz, 450-520MHz
Channel Capacity	64
Channel Spacing	25kHz/20kHz/12.5kHz
Operating Voltage	DC: 13.6V±15%,AC:100~250V 50/60Hz
Current Drain Standby	<1.0A
Transmit	<12A
Frequency Stability	0.5 ppm
Antenna Impedance	50Ω
Duty Cycle	100%
Dimensions(H·W·D)	482.6mm×450mm×44mm
Weight	10.8Kg

### Environment Specifications

Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC610000-4-2(Level4) ±4kV(Contact) ±8kV(air)
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

### Transmitter

RF Power Output	High Power: 40W(UHF)/45W(VHF)
FM Modulation	11K0F3E@12.5kHz, 14K0F3E@20kHz; 16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FXD, 12.5kHz Voice: 7K60F1E&7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W
Modulation Limiting	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz
FM Hum & Noise	40dB@12.5kHz, 45dB@20kHz/25kHz
Adjacent Channel Power	60dB@12.5kHz, 70dB@20kHz/25kHz
Audio Response	+1~-3dB
Audio Distortion	3%
Digital Vocoder Type	ABME+2™
Digital Protocol	ETSI-TS 102 361-1,-2,-3,-4

### Receiver

Sensitivity Analog	0.3μV(12dB SINAD)
Sensitivity Digital	0.3μV/BER5%
Selectivity	70dB@12.5kHz, 75dB@20/25kHz(TIA-603) 70dB@12.5kHz, 75dB@20/25kHz(ETSI)
Spurious Response Rejection	75dB@12.5/20/25kHz(TIA-603) 70dB@12.5/20/25kHz(ETSI)
Inter-modulation	70dB@12.5kHz/25kHz(TIA-603) 65dB@12.5kHz/25kHz(ETSI)
Hum and Noise	40dB@12.5KHz, 45dB@20/25KHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	3%(Typical)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@ < 1GHz, -47dBm @> 1GHz



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