

Specifications

	TKR-751	TKR-851
GENERAL (Measurements made per EN300 086)		
Frequency Range Type 1:	146 ~ 174 MHz	440 ~ 470 MHz
Number of Channels	16	
Channel Spacing Wide Narrow (PLL channel stepping)	25, 20 kHz 12.5 kHz (5, 6.25 kHz)	
Operating Voltage	13.2 V DC ±15%	
Current Drain Standby Standby (w/power save) Receive Transmit/Receive	0.8 A 0.3 A Operating mode; DC-IN: Backup, FAN: Temp, SAVE: On, DISP: Off 1.2 A Less than 8 A	
Duty Cycle	Receive: 100%, Transmit: 100%	
Frequency Stability	±0.0002% (-30° C ~ +60° C)	±0.00015% (-30° C ~ +60° C)
Operating Temperature Range	-30° C ~ +60° C	
Dimensions (W x H x D)	483 x 88 x 340 mm	
Weight (net)	9.7kg	
Applicable Standard	EN300 086, 219, 113, EN301 489, EN60065, 60950, 60215	
RECEIVER (Measurements made per EN300 086)		
Antenna Impedance	50 Ω	
Sensitivity: 20 dB SINAD	0.45 μV	
Adjacent Channel Selectivity	85 dB at ±25 kHz 82 dB at ±20 kHz 77 dB at ±12.5 kHz	83 dB at ±25 kHz 80 dB at ±20 kHz 75 dB at ±12.5 kHz
Intermodulation	72 dB	
Hum & Noise Wide Narrow	50 dB at 25 kHz 48 dB at 20 kHz 45 dB at 12.5 kHz	
Audio Output (Ext. Speaker)	4 W (at 4 Ω, less than 5% distortion)	
Spurious & Image Rejection	90 dB	
Audio Distortion (Ext. Speaker)	Less than 2.5% at 1000 Hz	
Band Spread Type 1:	3 MHz	5 MHz

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TRANSMITTER (Measurements made per EN300 086)		
Antenna Impedance	50 Ω	
RF Power Output Hi Low	25 W (default) 1 W (default) (100% duty at 1-25 W)	
APC Variable Range	1-25 W 25 W adjustable to 1 W	
Type of Emission	16K0F3E, 14K0F3E, 8K50F3E, 14K0F2E, 12K0F2D, 7K50F2D	
Modulation Limiting	±5 kHz at ±25 kHz ±4 kHz at ±20 kHz ±2.5 kHz at ±12.5 kHz	
Spurious Emission	-36 dBm ≤ 1 GHz -30 dBm > 1 GHz	
FM Noise (EIA) Wide Narrow	50 dB at 5 kHz 48 dB at 4 kHz 45 dB at 2.5 kHz	
Microphone Impedance	600 Ω	
Modulation Distortion Type 1:	Less than 3% at 1000 Hz	
Band Spread	28 MHz	30 MHz
REPEATER CONTROL (Measurements made per TIA/EIA-603)		
Signaling (simultaneously) Max. Number of Tones	16	
QT Decoder/Encoder Tone Frequency Decoder Response Time Squelch Tail Elimination Time Encoder Frequency Error Sensitivity	67.0 – 210.7Hz (0.1Hz step) 250 ms or less 140 to 200 ms ±0.3% or less SINAD 8dB or less	
DQT Decoder/Encoder DQT Code Decoder Response Time Turn-off Code Transmission Time Sensitivity	23 bits total: a 3-digit octal number (0 – 7, 12 bits) with error correction (11bits) 250 ms or less 140 to 200 ms SINAD 8dB or less	
Time out Timer	Off to 30 min.	
Repeat Hold Time	Off to 10 sec.	
EXTERNAL CONTROL		
CWID Maximum Modulation CW Tone Frequency Morse Code Speed Maximum Character Memory	Maximum deviation of 40%±10% 400Hz to 2000Hz, (default 800Hz) 5 to 30 words per minute, (default 20WPM) Up to 32 characters (includes space)	
CW Message Maximum Character Number of Banks	Up to 32 characters per bank (includes space) 8 banks	
Test Tone Maximum Modulation Test Tone Frequency	Maximum deviation of 60% 300Hz to 3000Hz (default 1000Hz)	
5-Tone Standard	EEA, ZVEI, CCIR, ZVEI-2, EIA, Kenwood	

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.