

GENERAL		
Frequency Range	TX	144-146, 430-440 MHz
	Band A	136 – 174, 216 – 260, 410 – 470 MHz
	Band B	0.1 – 76 / 108 – 524 MHz
	Band B -FM-W	76 – 108 MHz
Number of Channels		Total 1000-ch
Mode	Band A	F3E, F1D, F2D, F7W
	Band B	F3E, F2D, F1D, F7W, A1A, A3E J3E, F7W
Operating Temperature		
DC IN w/ Li-ion Battery w/ Chargeable Li-ion Battery		-20°C – +60°C (-4°F – +140°F)
		-10°C – +50°C (14°F – +122°F)
		0°C – +40°C (32°F – +104°F)
Frequency Stability		±2.0 ppm (-20°C – +60°C, -4°F – +140°F)
Antenna Impedance	SMA	50 Ω
Operating Voltage	DC-IN	DC 11.0 – 15.9 V (STD: DC 13.8 V)
	Battery	DC 6.0 – 9.6 V (STD: DC 7.4 V)
Current Consumption (TX)		
Battery DC 7.4 V/ DC-IN 13.8 V	HI	2.0 A / 1.4 A
	MID	1.3 A / 0.9 A
	L	0.8 A / 0.6 A
	EL	0.5 A / 0.4 A
Current Consumption (RX)		
Single	Rated AF Output	260 mA
	SQL Closed	155 mA
	Save Mode Average	50 mA
Dual	Rated AF Output	310 mA
	SQL Closed	225 mA
	Save Mode Average	50 mA
GPS only		125 mA
Dimensions (W x H x D)		Projections not included
with KNB-75LA (1820 mAh)		56.0 x 121.95 x 32.5mm
Weight (net)		
with KNB-75LA (1820 mAh)		340 g

RECEIVER		
Circuitry		
Band A / Band B (F3E, F2D, F7W)		Double Super Heterodyne
Band B (A1A, A3E, J3E)		Triple Super Heterodyne
Intermediate Frequency		
1 st IF (Band A / Band B)		57.15 MHz / 58.05 MHz
2 nd IF (Band A/ Band B)		450 kHz
3 rd IF (Band B: A1A, A3E, J3E)		10.8 kHz
Sensitivity		
A: W/N	12 dB SINAD	0.18 / 0.22 µV (Amateur band)
A: DV	BER 1% PN9 4.8 kbps	0.22 µV (Amateur band)
B: W/N	12 dB SINAD	0.20 / 0.25 µV (Amateur band)
B: DV	BER 1% PN9 4.8 kbps	0.25 µV (Amateur band)
B: SSB Approx.	10 dB S/N	0.20 µV (Amateur band)
B: AM Approx.	10 dB S/N	4.00 µV (0.3-0.52), 1.59 µV (0.52-1.8)
		(MHz)
		0.63 µV (1.8-54), 1.12µV (54-76)
		0.50 µV (118-175), 0.63 µV (200-250)
		1.12 µV (380-524)
B: FM Approx.	12 dB SINAD	0.32 µV (28-54), 0.56 µV (54-76)
A/B:	(MHz)	0.36 µV (118-144)
B:		0.36 µV (148-175)
A/B:		0.36 µV (200-222, 225-250)
B:		0.50 µV (380-400)
A/B:		0.36 µV (400-430, 450-490)
B:		0.63 µV (490-524)
B: W-FM Approx.	30 dB S/N	1.59 µV (76-95)
B:	(MHz)	2.00 µV (95 -108)
B: SSB Approx.	10 dB S/N	0.40 µV (1.8-54), 0.79 µV (54-76)
B:	(MHz)	0.16 µV (144-148), 0.20 µV (222-225)
B:		0.16 µV (430-450)
Squelch		A/B
		0.18 / 0.25 µV
Channel Selectivity		
A/B:	-6/-50 dB	12 kHz or more / 30 kHz or less
Spurious Rejection		A/B
IF Rejection		A/B
		50 / 45 dB (UHF-B: 40 dB)
		60 / 55 dB
Audio Output		
At 7.4 V, 10% distortion, INT		400 mW / 8 Ω

TRANSMITTER		
RF Power Output		
Battery DC 7.4 V/ DC-IN 13.8 V	HI	5 W / 5 W
	MID	2 W / 2 W
	L	0.5 W / 0.5 W
	EL	0.05 W / 0.05 W
Modulation	FM	Reactance Modulation
	Digital	GMSK Modulation: ±1.2 kHz
Modulation Deviation	FM	±5.0 kHz
	NFM	±2.5 kHz
Spurious Emissions	HI/MID	<-60 dBc
	LOW/EL	<-50 dBc / <-40 dBc
Microphone Impedance		2 kΩ

GPS	
TIFF (Cold Start)	40 sec (typ)
TIFF (Hot Start)	5 sec (typ)
Horizontal Accuracy	10 meters or less
Receive Sensitivity	-141 dBm (typ)
Ta=25°C, Open sky	

Bluetooth	
Output Power	-6 <Pav <4 dBm
Modulation Characteristics	140 <= Δf1avg <= 175 kHz
Initial Carrier Frequency	-75 <= fo <= +75 kHz
Carrier Frequency Drift	
1. One Slot packet	±25 kHz
2. Three Slot packet	±40 kHz
3. Five Slot packet	±40 kHz

The measurements shall be in accordance with the method specified by JATA. Also conform to PSIS-C08-001 product inspection measurement method. Specifications, and design may change due to advancements in technology.

The APRS® trademark is used with permission of Tucson Amateur Packet Radio Corp., its assignee.

D-STAR (Digital Smart Technology for Amateur Radio) is a digital radio protocol developed by JARL (Japan Amateur Radio League).

USB Type-C™ and USB-C™ are registered trademarks of USB Implementers Forum.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by JVCKENWOOD is under license.

All other company names, brand names and product names are registered trademarks or trade names of their respective holders.