

General

Rx Frequency Range:	100 kHz - 30 MHz
Tx Frequency Ranges:	160 - 10m (Amateur bands only)
Frequency Stability:	±0.5 ppm (after 1 min. @ 25 °C) ±0.25 ppm (after 1 min. @ 25 °C, w/TCXO-6)
Operating Temperature Range:	-10 °C ~ +50 °C
Emission Modes:	LSB, USB, CW, FSK, AFSK, AM, FM
Frequency Steps:	0.625/1.25/2.5/5/10 Hz for SSB,CW, RTTY & Packet; 100 Hz for AM and FM
Antenna Impedance:	50 Ohms, unbalanced 16.6 - 150 Ohms, unbalanced (Tuner ON, TX only)
Power Consumption(@ 13.8 V DC):	Rx (no signal) 2.3 A Rx (signal) 2.7 A Tx (100 W) 20 A
Supply Voltage:	13.8 VDC/100-120 VAC 50-60 Hz/200-240 VAC 50-60 Hz
Dimensions (WHD):	410 x 135 x 347 mm (16 x 5.3 x 13.7 inch)
Weight (approx.):	15 kg. (33 lbs)

Transmitter

Power Output:	Adjustable up to 100 watts (25 watts AM carrier), Class A mode (SSB): 25 watts maximum
Duty Cycle:	100% @ 50 watts, 50% @ 100 watts (FM & RTTY, 3-minute Tx)
Modulation Types:	SSB: J3E Balanced, AM: A3E Low-level (early stage), FM: F3E Variable reactance, AFSK: J1D, J2D Audio frequency shift keying
Maximum FM Deviation:	± 2.5 kHz
FSK Shift Frequencies:	170, 425, and 850 Hz
Packet Shift Frequencies:	200 and 1000 Hz
Harmonic Radiation:	Better than -60 dB (Typical)
SSB Carrier Suppression:	At least 40 dB below peak output
Undesired Sideband Suppression:	At least 55 dB below peak output
Audio Response (SSB):	Not more than -6 dB from 400 to 2600 Hz
3rd-order IMD:	-31 dB @ 100 watts PEP, or better Class A mode: -40 dB @ 25 watts PEP (Typical)
Microphone Impedance:	500 to 600 Ohms

Receiver

Circuit Type:	Quad-conversion superheterodyne (triple conversion for FM)			
Intermediate Frequencies:	Main Rx; 70.455 MHz/8.215 MHz/455 kHz, Sub Rx; 47.21 MHz/455 kHz			
Sensitivity:	Modes	0.5 - 1.8 MHz	1.8 - 30 MHz	
	SSB/CW (2.0 kHz)	2 µV	0.16 µV	
	AM (6 kHz)	13 µV	2 µV	
	FM	-	0.5 µV	
	(with preamp on, IDBT on, SSB/CW/AM for 10 dB S/N, FM for 12 dB SINAD, 0 dBµ = 1 µV)			
Selectivity (-6/-60 dB):	Band Width	Modes	Minimum -6 dB BW	Maximum -60 dB BW
	2.4 kHz	all except FM	2.2 kHz	4.2 kHz
	2.0 kHz	all except FM	1.8 kHz	3.6 kHz
	500 Hz	CW/RTTY/Packet	500 Hz	1.8 kHz
	250 Hz	CW/RTTY/Packet	250 Hz	700 Hz
		AM (Wide)	4 kHz	14 kHz
		FM	8 kHz	19 kHz
IF Rejection (1.8 ~ 30 MHz):	80 dB or better (Main Rx), 60 dB or better (Sub Rx)			
Image Rejection (1.8 ~ 30 MHz):	80 dB or better (Main), 50 dB or better (Sub)			
Maximum Audio Output:	2.0 W into 4 Ohms with <10% THD			
Audio Output Impedance:	4 to 8 Ohms			

Specifications are subject to change, in the interest of technical improvement, without notice or obligation.