

SPECIFICATIONS

1.1 GENERAL

Operating frequency ranges (MHz):

50-53.99999*
144-145.99999 (or 147.99999)
220-224.99999*
430-439.99999 (or 449.99999)
1240 or 1260-1299.99999*

Emission types:

LSB/USB (J3E voice), CW (A1A)
FM (F2D FSK, F3E voice)
TV (A3F optional, for 1.2 GHz*)

Operating temperature range:

-10 to +60°C

Reference oscillator stability:

better than ± 1 ppm (+10 to +40°C),
and ± 5 ppm (-10 to +60°C),
after 15 minutes warmup

Antenna impedance:

50 ohms, unbalanced

Supply voltage:

85 - 132 or 170 - 264 VAC, 50/60 Hz,
or 13.8 VDC $\pm 10\%$, negative ground

Power consumption/current req. (Approx.):

Maximum: 250 VA
Receive: 1.5 A
Transmit: 8 A

Dimensions (WHD):

368 x 129 x 286 mm

Weight:

9 kg (19.8 lbs)

1.2 TRANSMITTER

Power input:

30 watts DC @ 50 MHz*
60 watts DC @ 144, 220*, 430 MHz
45 watts DC @ 1.2 GHz*

Modulation methods:

SSB Balanced, filtered carrier
FM Variable reactance (± 5 kHz or
 ± 2.5 kHz maximum deviation)
ATV* low level carrier

Spurious radiation:

better than -60dB

Carrier suppression (SSB):

better than -40dB below peak output

Undesired sideband suppression (SSB):

better than -40dB below peak output

Audio characteristic (SSB):

within 6dB from 300 to 2700 Hz

Microphone impedance:

600 ohms nominal (200 ohms to 10k)

1.3 RECEIVER

Circuit type:

50*, 144 MHz bands: double-conversion
Other bands: triple-conversion super-
heterodyne

Intermediate frequencies:

13.69 MHz and 455 kHz, plus
47.75 MHz on 220*, 47.43 MHz on 430,
or 133.91 MHz on 1200 MHz band*

Sensitivity:

SSB/CW: better than -15dBu for 12dB
S+N:N
FM: better than -9dBu for 12dB SINAD

Squelch sensitivity:

SSB/CW: better than 0dBu
FM: better than -12dBu

Image rejection:

60dB or better

* requires optional unit

Selectivity (-6/-60dB):

SSB, CW: 2.2/4.5 kHz
 CW-N (optional): 600/1200 Hz
 FM: 12/25 kHz
 FM-N: 8/19 kHz

Audio output power:

1.5W into 8 ohms with 5% THD

Audio output impedance:

4 to 16 ohms

1.4 SUPPLIED ACCESSORIES

AC Power Cable T9013285
 Spare Fuse
 4A (for 85-132V) Q0000006
 or 2A (for 170-264V) Q0000003
 Preamp Jumper Plugs (2 pcs) T9205546
 Long Feet (2 pcs) R3054620
 Foot Pad (6 pcs) R7054630A

FT-736R Model Chart

Version →	A	B1	B2	C1	C2	H1	H2
2m Band							
Rptr Shift* (MHz)	144-148	144-146	144-148	144-146	144-148	144-146	144-148
FM Ch. Step* (kHz)	5	12.5	12.5	12.5	12.5	5	5
Tone Burst (Hz)	±600	±600	±600	±600	±600	±600	±600
70cm Band							
Freq. Range (MHz)	430-450	430-440	430-440	430-440	430-440	430-440	430-440
FM Ch. Step* (kHz)	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Rptr Shift* (kHz)	±5	±7.6	±7.6	±1.6	±1.6	±5	±5
Tone Burst (MHz)	1800	1750	1750	1750	1750	1750	1750

* can be reset by operator

1.5 OPTIONS

Model No.	Description	Order No.
E-736(DC)	DC Power Cable for operation from Ext. Supply	D4000028
FEX-736-50(A)	50 MHz Band Module	D3000529
FEX-736-220(A)	220 MHz Band Module	D3000530
FEX-736-1.2(A)	1.2 GHz Band Module for North America	D3000532
FEX-736-1.2(B)	1.2 GHz Band Module for outside North America	D3000533
FIF-232Cvan	CAT/TNC Interface for Packet Radio & CAT	A9700
FIF-232C	CAT Interface Unit for serial i/o connection	D3000307
FIF-65A	CAT Interface Unit for Apple II Computer	D3000369
FIF-MX	CAT Interface Unit for MSX Computers	D3000460
FMP-1	AQS Message Processor & digital message display	A8430
FTS-8	37-tone CTCSS Subaudible Tone Squelch Unit	D3000333
FVS-1A	Voice Synthesizer for Aural Frequency Readout	D3000371
Keyer Unit B	Internal Electronic Iambic Keyer	D3000535
MD-1B8	Desktop Microphone	D1000039
MH-1B8	Handie Scanning Microphone	D1000041
SP-767	External Speaker with Audio Filters	A846001-Z
TV-736	Fast Scan Television (ATV) Modulator/Demodulator	D3000534
XF-455MC	600 Hz CW Narrow Filter	D2000034