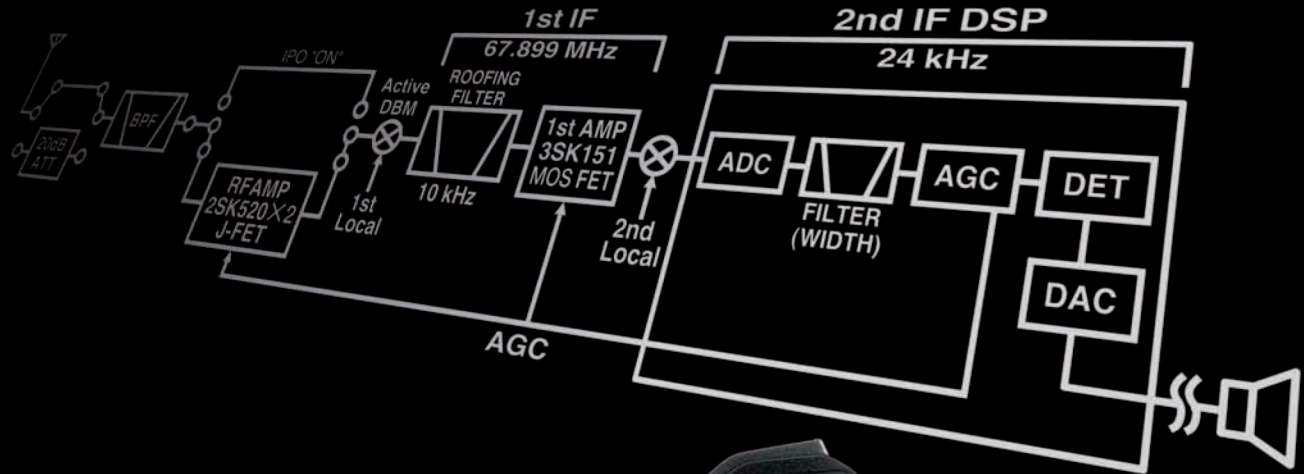


HF/50 MHz All Mode Base Station

FT-450

COMPACT HF/50 MHz TRANSCEIVER WITH IF DSP



YAESU
Choice of the World's top DX'ersSM

Specifications

General

Rx Frequency Range: 30 kHz - 56 MHz (operating)
160 - 6 m (specified performance, Amateur bands only)

Tx Frequency Ranges: 160 - 6 m (Amateur bands only)

Frequency Stability: ± 1 ppm/hour (@77° F / $\pm 25^\circ$ C, after warmup)

Operating Temperature Range: 14° F ~ 122° F (-10° C ~ +50° C)

Emission Modes: A1A (CW), A3E (AM), J3E (LSB, USB), F3E (FM)

Frequency Steps: 10 Hz (SSB & CW), 100 Hz (AM & FM)

Antenna Impedance: 50 Ohms, unbalanced

Power Consumption: RX (signal present) 1.5 A
TX (100 W) 22 A

Supply Voltage: DC 13.8 V $\pm 10\%$

Dimensions (WxHxD): 9" x 3.3" x 8.5" (229 x 84 x 217 mm)

Weight (approx.): 7.9 lb (3.6 kg) w/o ATU-450

Transmitter

Power Output: 100 watts (25 watts AM carrier)

Modulation Types: J3E (SSB): Balanced,
A3E (AM): Low-Level (Early Stage),
F3E (FM): Variable Reactance

Maximum FM Deviation: ± 5.0 kHz / ± 2.5 kHz

Harmonic Radiation: Better than -60 dB (160 - 10m Amateur bands)
Better than -70 dB (6m Amateur band)

SSB Carrier Suppression: At least 60 dB below peak output

Undesired Sideband Suppression: At least 60 dB below peak output

Audio Response (SSB): Not more than -6 dB from 400 to 2600 Hz

Microphone Impedance: 600 Ohms (200 to 10 kOhms)

Receiver

Circuit Type: Double-conversion superheterodyne

Intermediate Frequencies: 1st IF 67.899 MHz / 2nd IF 24 kHz

Sensitivity (IPO "OFF", ATT: OFF): SSB (2.4 kHz, 10 dB S+N/N)
0.25 μ V (1.8 - 2.0 MHz)
0.25 μ V (3.5 - 30 MHz)
0.20 μ V (50 - 54 MHz)

AM (6 kHz, 10 dB S+N/N,
30 % modulation @400 Hz)
2.00 μ V (1.8 - 2.0 MHz)
2.00 μ V (3.5 - 30 MHz)
1.00 μ V (50 - 54 MHz)

FM (BW: 15 kHz, 12 dB SINAD)
0.50 μ V (28 - 30 MHz)
0.30 μ V (50 - 54 MHz)

There is no specification in frequency ranges not listed.

Squelch Sensitivity: SSB/CW/AM
(IPO "OFF", ATT: OFF) 2.50 μ V (1.8 - 30 MHz)
1.00 μ V (50 - 54 MHz)

FM
0.32 μ V (28 - 30 MHz)
0.16 μ V (50 - 54 MHz)

There is no specification in frequency ranges not listed.

Selectivity (-6/-60 dB): Mode -6 dB -60 dB

CW	0.5 kHz or better	2.0 kHz or less
SSB	2.2 kHz or better	4.5 kHz or less
AM	6 kHz or better	20 kHz or less
FM	15 kHz or better	30 kHz or less
FM-N	9 kHz or better	25 kHz or less

Image Rejection: 80 dB or better (160 - 10m Amateur bands)
65 dB or better (6m Amateur band)

Maximum Audio Output: 2.2 W into 4 Ohms with 10% THD

Audio Output Impedance: 4 to 16 Ohms (8 Ohms: nominal)

Conducted Radiation: Less than 4000 μ W

Specifications are subject to change without notice, and are guaranteed within the amateur band only. Frequency range will vary according to transceiver version; check with your dealer.

Component parts (Set)



FP-1023 (USA Only)
External Power Supply
(13.8 VDC 23 A)



FP-1030
External Power Supply
(13.8 VDC 25 A)



VL-1000
Linear Amplifier
1 kW Power output
(6 m: 500 W/USA version)

VP-1000
VL-1000 Power Supply

CT-118 Band Data Cable

About this brochure: we have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time to equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized Yaesu Dealer for complete details.



VERTEX STANDARD CO., LTD.
4-8-8 Nakameguro, Meguro-ku, Tokyo 153-8644, Japan

For the latest Yaesu news, visit us on the Internet:
<http://www.vxstd.com>

VERTEX STANDARD <http://www.vertexstandard.com>
Email: amateursales@vxstdusa.com

US Headquarters Phone +1 714-827-7600
10900 Walker Street, Cypress, CA 90630, U.S.A.

YAESU EUROPE B.V.
P.O. Box 75525, 1118 ZN Schiphol, The Netherlands Phone +31 20-5005270
Email: sales@yaesu.co.uk

YAESU UK LTD. <http://www.yaesu.co.uk>
Email: sales@yaesu.co.uk Phone +44 196 286 6667
Unit 12, Sun Valley Business Park, Winnall Close
Winchester, Hampshire, SO23 0LB, U.K.

VERTEX STANDARD HK LTD. <http://www.vxstd.com.hk>
Unit 5, 20/F., Seaview Centre, 139-141 Hoi Bun Road, Phone +852 2732 2288
Kwun Tong, Kowloon, Hong Kong

VERTEX STANDARD AUSTRALIA PTY. LTD.
Normanby Business Park, Unit 14/45 Normanby Road Phone +61 3 95182100
Notting Hill 3168, Victoria, Australia