

PRELIMINARY SPECIFICATIONS

FLEX-6400/6400M	
RECEIVER	
Independent Band/Mode Receivers (Max)	2
1/2 kHz Reciprocal Mixing Dynamic Range (RMDR)	110/116 dB
ADC Bits/Sampling Rate	16/122.88 Msps
Frequency Coverage	30 kHz-54 MHz
Amateur Band Preselectors	3rd Order
Cable-less Digital Audio Channels (DAX)/DAX IQ Channels	2/2
Receive Only Ports (Base/Including XVTR Ports)	1/2
Full Duplex RX/TX Operation	✓
SPECTRUM/WATERFALL DISPLAY	
Internal Touch Panel Display Size Diagonal	8-inch (6400M)
Integrated Display Resolution	1920x1200 (6400M)
External Display Resolution/Connection	1920x1200/HDMI (6400M)
Spectrum/Waterfall Displays (Max)	2
Spectrum/Waterfall BW (Min/Max)	5 kHz to 14MHz
Spectrum Dynamic Range (Max Zoom)	>145 dB
Spectrum Resolution Bandwidth (Min)	5.85 Hz
TRANSMITTER	
160m-6m Transmitter Output	1-100W(25W AM)
Harmonic Suppression (Typ)	< -60 dBc
Transverter Ports	1
Transverter Frequency Coverage/Power	100 kHz - 54 MHz/0 to +10 dBm
Optional Automatic Antenna Tuner Range	3:1 SWR
Continuous MARS/CAP Coverage	Optional
GENERAL	
Modes (Note 1)	SSB, CW, AM, SAM, FM, FREE-DV, RTTY, DIGITAL
D-STAR Mode	Optional ThumbDV
Integrated Remote Operation	✓
Maestro, PC, MAC, iPhone, & iPad Client Options	✓
Internal Speaker/Power	2W Class D (6400M)
Frequency Stability (0C - 50C)	0.5ppm (TCXO)
GPS Disciplined Oscillator	Optional 5 x 10 ⁻¹² Over 24 Hours
External 10MHz Reference Input	✓
Power Supply Requirements	13.8 VDC ±15% (14 VDC Nom)
Dimensions	6.74"H (17.1 cm) x 14"W (35.6 cm) x 13.25"D (33.7 cm)

INNOVATION
COMES
STANDARD

FlexRadio Systems[®]
Software Defined Radios

Signature Series
FLEX-6400/6400M
HF/50 MHz Direct Sampling
Software Defined Radio Transceiver



FlexRadio Systems[®]
Software Defined Radios

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1. RTTY and other digital modes use 3rd party software over DAX channels.

Real SDR for Every Operator

Signature Series FLEX-6400 Radio Server SDR



Both the FLEX-6400™ and FLEX-6400M™ offer the latest direct sampling SDR technology at an economical price for the general HF/6m operator yet they offer excellent performance for chasing DX and contesting. The FLEX-6400 model is designed for the Ham who wants to operate the radio exclusively as a server from PC, laptop, Maestro, Mac, or iOS clients - whether local or remote. Both models share the same game changing band awareness, industry leading phase noise performance, brick wall filters, and legendary audio performance to deliver you the most fun across a wide variety of operating styles.

With a PC, laptop, or Mac client you can utilize up to two 7 MHz spectrum/waterfall displays and independent receivers to revolutionize your view of the bands. Its two receivers can be placed simultaneously on any band and mode with instant QSY between VFOs. Digital mode operation is a dream with no sound cards, cables or boxes needed.

FlexRadio's industry leading SmartSDR™ software offers compatibility across the entire FLEX-6000 Signature Series family to deliver continuous leveraged software enhancement. And you can use the latest SmartLink™ technology to access your radio virtually anywhere from any SmartSDR compatible client with only a login and password - even your iPhone.

Experience The Real SDR...

PRODUCT FEATURES:

100W PEP HF-6M OPERATION:
ALL MODES/ALL BANDS

INTEGRATED REMOTE
OPERATION WITH MAESTRO, PC/
LAPTOP, IPAD OR IPHONE

2 INDEPENDENT BAND / MODE
RECEIVERS

FULL DUPLEX CROSS BAND
OPERATION

ONE TRANSVERTER PORT

RECEIVE ONLY PORT

DIRECT SAMPLING SDR 122.88
MSPS - 16 BIT

116 DB 2KHZ RMDR

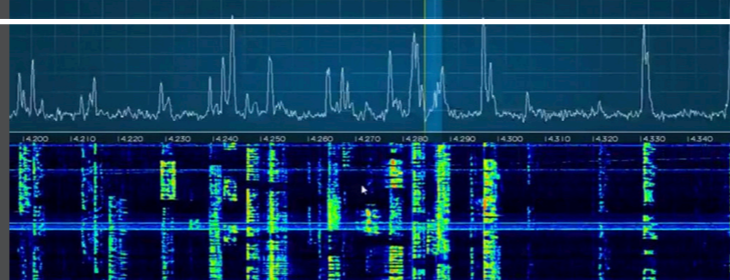
10 MHZ REFERENCE INPUT WITH
GPSDO OPTION

OPTIONAL MARS/CAP/SHARES
EXPANSION

FREE-DV AND D-STAR
(OPTIONAL)

OPTIONAL ANTENNA TUNER

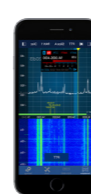
A PICTURE IS WORTH A THOUSAND CONTACTS



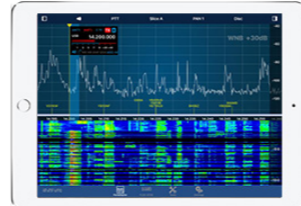
The FLEX-6400 and FLEX-6400M deliver game changing band awareness with the ability to watch bands open, find holes in the pile-up, watch for DX patterns, and see signals before you hear them. Instantly QSY to any visible station with just a touch or a click.

ANY WHERE, ANY TIME, FROM ANY OF THESE DEVICES:

iPhone



iPad



Laptop



Maestro



With SmartLink and a FLEX-6400/FLEX-6400M you can operate your radio from almost anywhere! Just take an iPhone, iPad, Laptop or Maestro with you and instantly connect to your radio with virtually no setup required.



Eliminate Complexity

With the FLEX-6400 and FLEX-6400M there is no longer a need for complex configurations to integrate your station. With SmartSDR Digital Audio Exchange (DAX) and SmartSDR CAT, we eliminate all the wiring and sound cards for digital mode and logger connections to the radio. This results in less hassle, RFI, and cable failures, leaving you more time to operate.

New Software = New Radio

We believe a real SDR should improve over time. As FlexRadio continues to enhance SmartSDR, you have the opportunity to upgrade your radio with each new release. The FLEX-6400/6400M ship with the most current version of SmartSDR installed and are eligible for free upgrade to all subsequent releases within the respective major release version number.* Regular updates give you the option to increase the performance and features of your radio for years to come.



Confusion Free Controls

We believe a radio's controls should be simple, clear and ergonomic. We only put the most important controls on the front panel so that you can easily find what you need when you need it. The controls are spaced apart so that you won't accidentally change a different setting. Both A and B receivers have a full complement of dedicated controls for maximum productivity.



Signature Series FLEX-6400M All in One SDR



FlexRadio continues to set the standard for high resolution, real time spectral display in amateur radio transceivers. The FLEX-6400M integrates all FLEX-6400 capabilities with a stunning 8-inch 1920 x 1200 IPS WUXGA touchscreen display and ergonomic controls to deliver a high performance SDR with a traditional radio interface. It delivers unmatched band awareness from an integrated display while providing an external connection for a HDMI compatible 1920 x 1200 resolution monitor for maximum spectral visibility. Influenced by top contest/DX operators, its symmetrical and independent dual VFO controls are strategically placed to provide maximum productivity for all types of operation. It's completely self contained so just plug it in and operate - no PC, network or learning curve required.

The FLEX-6600M places the most used controls right at your fingertips. Controls are labeled for intuitive operation and designed to minimize hand motion for the most common operations. Occasionally used controls are easily accessible on the large touch screen display bypassing the complexity of multi-function buttons and multi-level menus found on other transceivers. Like modern smartphones and tablets, capacitive touch control is provided on the large LCD display for intuitive pan, zoom, tune, and menu operation.

Experience The Real SDR...

PRODUCT FEATURES:

ALL THE FEATURES OF THE
FLEX-6000 PLUS....

SPECTACULAR 8-INCH, 1920 X 1200
IPS INTEGRATED DISPLAY

TOUCH TUNE, ZOOM, PAN,
CONTROLS AT YOUR FINGERTIPS

ERGONOMICALLY OPTIMIZED
CONTROLS WITH FULL DUAL VFO

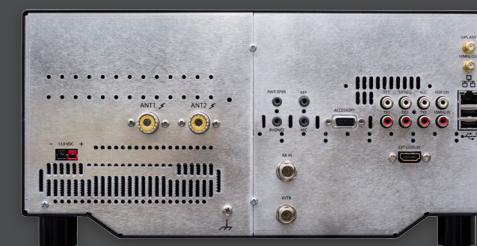
UP TO 7MHZ SPECTRUM /
WATERFALL BANDWIDTH

REAL-TIME SPECTRUM/WATERFALL -
>145 DB DYNAMIC RANGE

EXTERNAL DISPLAY OUTPUT - FULL
1920 X 1200 WUXGA

FRONT FACING SPEAKER WITH 2W
CLASS D AUDIO AMPLIFIER

6400/6400M Back Panel



*Major releases may require purchase

www.flexradio.com