INNOVATION COMES STANDARD

FlexRadio Systems®
Software Defined Radios

Signature Series

FLEX-6600/6600M

HF/50 MHz Direct Sampling
Software Defined Radio Transceiver

FLEX-6600/6600M	
RECEIVER	
Independent Band/Mode Receivers (Max)	4
1/2 kHz Reciprocal Mixing Dynamic Range (RMDR)	110/116 dB
ADC Bits/Sampling Rate	16/245.76 Msps
Frequency Coverage	30 kHz-54 MHz
Amateur Band Preselectors	7th Order Contest Bands, 3rd Order Other
Cable-less Digital Audio Channels (DAX)/DAX IQ Channels	4/4
Receive Only Ports (Base/Including XVTR Ports)	2/4
Full Duplex RX/TX Operation	✓
Simultaneous Receive on Two Antennas (e.g. 20m & 6m)	✓
Single Radio SO2R Operation - No External Equipment	✓
Diversity Reception	✓
SPECTRUM/WATERFALL DISPLAY	
Internal Touch Panel Display Size Diagonal	8-inch (6600M)
Integrated Display Resolution	1920x1200 (6600M)
External Display Resolution/Connection	1920x1200/HDMI (6600M)
Spectrum/Waterfall Displays (Max)	4
Spectrum/Waterfall BW (Min/Max)	1.2 kHz to 14MHz
Spectrum Dynamic Range (Max Zoom)	>155 dB
Spectrum Resolution Bandwidth (Min)	1.6 Hz
TRANSMITTER	
160m-6m Transmitter Output	1-100W(25W AM)
Harmonic Suppression (Typ)	< -60 dBc
Transverter Ports	2
Transverter Frequency Coverage/Power	100 kHz - 54 MHz/0 to +10 dBm
Integrated 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 (6600M)
Frequency Stability (0C - 50C)	0.5ppm (TCXO)
GPS Disciplined Oscillator	Optional 5×10^{-12} Over 24 Hours
External 10MHz Reference Input	✓
Power Supply Requirements	13.8 VCDC +/- 15% (14 VDC Nom)
Dimensions	6.74"H (17.1 cm) x 14"W (35.6 cm) x 13.25"D (33.7 cm)

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

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Software Defined Radios

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Real SDR for the Serious Operator

Signature Series
FLEX-6600
Radio Server SDR

Both the FLEX-6600^{TM} and FLEX-6600M^{TM} offer the ultimate performance direct sampling SDR technology and the best value for the serious HF/6m operator. The FLEX-6600 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/ receiver dynamic range, and brick wall filters to give you the advantage in the most competitive DXing or contesting activities while maximizing your fun in casual operations. With a PC, laptop, or Mac client, you can utilize up to four 14 MHz spectrum/waterfall displays and independent band/mode receivers to revolutionize your view of the bands, especially on digital modes.

Contest grade filters, ultra low spurious emissions, and the ability to operate full duplex cross band on two antennas let you transmit on one band while receiving on another - no external equipment required. Even switch to synchronous diversity reception when needed to help you pick out the weak ones in the midst of QRM. By adding FlexRadio's new PowerGenius XL™ LDMOS solid state amplifier a complete legal limit, all mode SO2R station is now practical with one radio, one amp and only three interconnect cables - half the cost and none of the complexity.

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

4 INDEPENDENT BAND / MODE RECEIVERS

FULL DUPLEX CROSS BAND OPERATION

TRUE DIVERSITY RECEPTION

TWO RECEIVE ONLY PORTS

TWO TRANSVERTER PORTS

ECONOMICAL SO2R SOLUTION - (OTSPR) SUPPORT IN ONE RADIO

CONTEST BAND FILTERS: >50 DB REJECTION

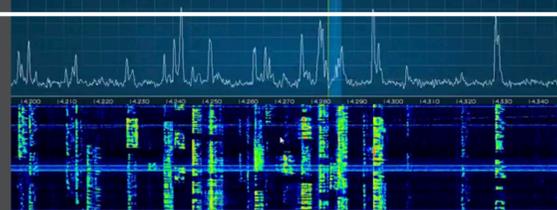DIRECT SAMPLING SDR 245.76 MSPS - 16 BIT

116 DB 2KHZ RMDR

10 MHZ REFERENCE INPUT WITH GPSDO OPTION

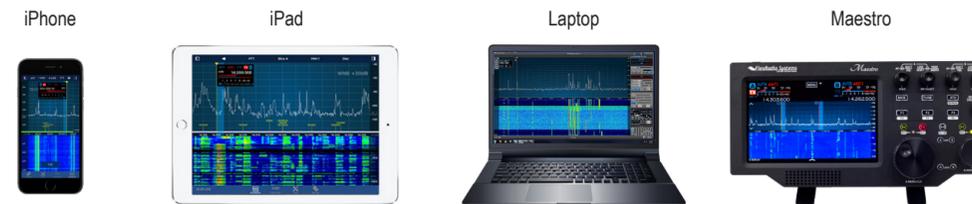OPTIONAL MARS/CAP/SHARES EXPANSION

FREE-DV AND D-STAR (OPTIONAL)

BUILT IN ANTENNA TUNER

A PICTURE IS WORTH A THOUSAND CONTACTS

The FLEX-6600 and FLEX-6600M 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-6600/FLEX-6600M 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.

Before

After

Eliminate Complexity

With the FLEX-6600 and FLEX-6600M 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-6600/6600M 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 wont accidentally change a different setting. Both A and B receivers have a full complement of dedicated controls for maximum productivity.

*Major releases may require purchase

Signature Series
FLEX-6600M
All in One SDR

FlexRadio continues to set the standard for high resolution, real time spectral display in amateur radio transceivers. The FLEX-6600M integrates all FLEX-6600 capabilities with a stunning 8-inch 1920 x 1200 IPS WUXGA touchscreen display and ergonomic controls to deliver the top performing SDR with a traditional radio interface. It delivers unmatched band awareness from the integrated display while providing an external HDMI compatible connection to a 1920 x 1200 resolution monitor for maximum spectral visibility. Influenced by top contest/DX operators, The FLEX-6600M symmetrical dual VFO controls are strategically placed to provide maximum productivity in chasing rare DX, winning contests, digital mode fun, or even casual operation. It's all 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. The FLEX-6600M controls are designed to provide maximum tempo in the most demanding applications including SO2R, Run, S&P, and Multi-op contesting.

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 14MHZ SPECTRUM / WATERFALL BANDWIDTH

REAL-TIME SPECTRUM/WATERFALL - >155 DB DYNAMIC RANGE

EXTERNAL DISPLAY OUTPUT - FULL 1920 X 1200 WUXGA

FRONT FACING SPEAKER WITH 2W CLASS D AUDIO AMPLIFIER

6600/6600M Back Panel

www.flexradio.com