

FLEX-**6700™**∕





FOR THE MOST DEMANDING HAM OUT THERE.

Put simply, the FLEX-6700[™] is simple, powerful and wonderful, designed specifically to exceed your expectations. And then some. This feature-packed transceiver is at the highest end of the 6000 series and is reserved for the most demanding amateur radio operator who desires the ultimate on-air experience.



TOP OF THE LINE, YET EVER-EVOLVING.

We believe a real SDR should improve over time. Which is why SDR is so critical to everything we create. And the 6700 is no exception. As FlexRadio continues to enhance SmartSDR[™], you have the opportunity to upgrade your radio with each new release. Your radio literally evolves with you. The FLEX-6700 ships with the most current version of SmartSDR installed and is eligible for free upgrade to all subsequent releases within the respective major release version number. Regular updates give you the option to enhance features and functionality whenever you see fit.





SHORT IN STATURE. TALL IN PERFORMANCE.

One of the features that has made the FLEX-6700 so popular among amateur operators and commercial and government entities alike is its form factor. Slightly shorter than the 6600, the style of the 6700 has alway been incredibly popular among radio operators. So, with that in mind, we've held onto what works — a tried-and-true and popular form factor that racks with ease due to its slightly shorter stature.

HIGHLY ADVANCED. HIGHLY ACCESSIBLE.

With dual spectral capture units (SCUs), the FLEX-6700 allows multiple active antennas to provide reception and unprecedented spectrum visibility across up to eight panadapters and waterfalls. Yes, we said eight. The dual-stage RF preamplifiers enhance weak signal reception up through 6m, 4m and 2m bands. And total flexibility and the highest performance set the FLEX-6700 apart from other radios. It's a radio that is off-the-charts on the performance scale, yet as intuitive and accessible as every SDR we make.

RECEIVER

Receiver Architecture Spectral Capture Units Maximum Slice Receivers Maximum High Resolution Spectrum Displays Maximum Panadapter Width ADC Resolution ADC Resolution ADC Sampling Rate Wideband Frequency Coverage DAX IQ Channels/Bandwidth Per Channel Amateur Band Preselector Coverage Preamplifiers/Attenuators Spurious and Image Rejection Ratio

ANTENNA

Matching Range 80m–10m Matching Range 160 and 6m

ELECTRICAL

Power Supply Requirements Current Drain (Receive/Transmit Max)

MECHANICAL

 Height
 4" (10.2 cm) with feet; 3.5" (8.9 cm) without feet attached

 Width
 13" (33 cm)

 Depth
 12" (30.5 cm) or 13" (33.04 cm) with optional front handles

 Weight
 Approximately 13 lbs (5.9 kgs)

 Operating Temperature
 0 - +50°C; +32 - +122°F

Direct Digital Sampling 2 8 8 14 MHz 16-bits 245.76 Msps 30 kHz–72 MHz; 135–165 MHz 4 @ 24 kHz–192 kHz 160m–6m (except 60m) -10 – +40 dB 100 dB or better 600 Ohm Stereo Unbalanced

8.3 Ohms-300 Ohms 16.7 Ohms-150 Ohms

+13.8V DC nominal ±15% 3A / 23A @13.8V

TRANSMITTER

Transmitter Architecture TX DAC Resolution TX DAC Sampling Rate RF Output Power

Amateur Band Coverage at Rated Power Output Low Pass PA Filter Bands Transverter IF Output Power Transverter IF Frequency Coverage Modulation System Maximum FM Deviation DAX Transmit Channel Carrier/Unwanted Sideband Suppression Spurious Emissions Transmit Bandwidth Microphone Connectors Microphone Impedance

GENERAL

2U, 19-inch (48.26cm) Rack Mounting Kit Front Handle Kit (adds 1 inch/2.5cm to total depth) USB 2.0 Ports (peripheral control) Master Clock Frequency Master Clock Phase Noise 10 MHz Reference Clock Stability Emission Modes Frequency Resolution Antenna Connectors Antenna Impedance (w/o tuner) Direct Digital Up-conversion 16-bits 491.52 Msps 1-100W nominal SSB, CW, FM, RTTY, Digital; 1–25W nominal AM 160m-6m 1.8 MHz-30 MHz continuous, 50 MHz-54 MHz +0 dBm Typical; +15 dBm max (+7 dBm, 2m) 100 kHz-72 MHz; 135 MHz-165 MHz Digital Low Power at Carrier Frequency ±5 kHz Yes <- 80 dBc typ / <- 80 dBc typ 1.8-50 MHz Amateur Bands: <- 55 dBc; -65 dBc 6m Default 100-2900 Hz (Variable 50-10000 Hz) Unbalanced 8-pin Foster, Balanced XLR/TRS 600 Ohms Nominal (200-10kΩ)

Optional Optional 2 983.04 MHz -147 dBc @10 kHz; -152 dBc @ 100 kHz 0.02ppm OCXO USB, LSB, CW, RTTY, AM, Synchronous AM, FM, NFM, DFM 1 Hz min. SO-239x2, BNCx2, XVTRx1 50 Ohm Unbalanced

HONES

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



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4616 W HOWARD LN #1-150 AUSTIN, TX 78728

> P +1.512.535.4713 F +1.512.233.5143

FLEXRADIO.COM SALES@FLEXRADIO.COM

