



# AMATEUR RADIO CATALOG



FLEX-6400™

FLEX-6400M™

FLEX-6600™

FLEX-6600M™

FLEX-6700™

Maestro™

Power Genius XL™

SmartSDR™



We're for every corner of the earth. The nooks, the crannies and the generally hard-to-find. We're for those places that aren't even on regular maps, but should be and will be once we're done with them. We're for bringing like-minded enthusiasts together through community and communication. Whether it's rag chewing, contesting or a far-off DXpedition, through curiosity, innovation and a borderline obsession, we're all in. We're for helping each other understand the possibilities of ham radio and enabling the desires to make contact. We are FlexRadio. And together, we will **Find Everywhere.**

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**WE HAVE SEEN  
THE FUTURE.  
WE ARE IN IT.**

## ABOUT FLEX RADIO

As the pioneers of software-defined radios, we didn't set out to change the course of the entire amateur radio industry, but it kind of turned out that way. Through the relentless pursuit of innovation, our mission continues to be to conceive what lies just beyond what's next. We rip apart. We rebuild. We tinker. We revolutionize for the love of amateur radio and the community that goes along with it. We aim higher and look farther, not in hopes of solving what lies right in front of us today, but in hopes of creating tools and solutions for things we can't even see just yet.

16.895°N, 24.96°W



# SMARTSDR™ AS THE RADIO

📍 40.66°N, 89.89°W



## OUR VISION .....

When you're a software company disguised as a hardware manufacturer, innovation happens. We don't just shoot for what works. We shoot for the moon. And occasionally even bounce signals off it. SDR is the heart of who we are. It allows us to see around corners. It's future-focused, if not eerily predictive of what's to come. It takes us places we didn't even know we were going. And it's what single-handedly has allowed us to change the face of ham radio.

We've been successful at doing this because we are a software company first. We then, of course, build beautiful radios around our beautiful software. And it's this type of thinking that has led to a transceiver with virtually no limits. With SDR, the ability to upgrade continues to occur as technology will allow. For once, "the possibilities are endless" is not a figure of speech, but the perfect description of what SDR delivers. The software is the radio, and what that provides you as the user is truly an ever-evolving piece of technology.

## SMARTSDR: THE CENTER OF OUR SO-CALLED UNIVERSE .....

SmartSDR™ is the game-changer that is at the epicenter of everything we create. We've quite literally taken everything we've learned in amateur, commercial and government markets and created a new, highly intuitive class of transceiver. One that is virtually without limits. Our SmartSDR Windows-based software runs on each radio shipped, but third party software versions are also available for iOS and Mac clients. And it's a software-driven radio that will function as a platform for the most imaginative minds in the world, eager to develop applications for today, tomorrow and the day after that.

[LEARN MORE](#)

## SIMPLE IS BEAUTIFUL .....

While hardware and form factor are by no means an afterthought, we are a software company first and foremost. With this in mind, our hardware architecture is very modular. It plays well with others. This is a critical aspect of what we do, simply because it allows us not only to deliver beautiful radios but also to easily and seamlessly add new capabilities.

SmartSDR takes intricate, sophisticated hardware and makes it elegant and simple to use. Just as smartphones and tablets have made computing devices accessible to anyone, everywhere, the SmartSDR architecture delivers high-performance Software Defined Radio for all. FlexRadio is THE industry standard for radio display, interaction and control. Our graphical interface is intuitive, easy to learn, and use. It is designed for hams, by hams. Multiple high-resolution, real-time spectral displays are the essence of the SmartSDR experience. Seldom-used controls are hidden from view to reduce complexity and minimize distractions, yet are instantly available when needed.

The FLEX-6000™ series was designed with plug-and-play installation as a requirement. From the beginning, the connector that brings the world to your desktop, Ethernet, was standard on the FLEX-6000 series. With software written from the ground up for the age of communications, working with other applications and the Internet were second nature to the FLEX-6000 series. Just plug the radio into an antenna, power supply and network, load the SmartSDR software on your existing PC and go.

## OPEN TO BEING OPEN .....

While application programming interfaces (APIs) are nothing new, they are what allow developers and their imaginations to create forward-looking capabilities that can build on SmartSDR. By providing a published and open API, we align with technology industry best practices, allowing third parties to create software and equipment that beautifully interface with our products. This fuels creativity and provides flexibility for the future as our software is layered with common interfaces inside, delivering a standard by which other users can take your radio far into tomorrow. What does this mean for you? SmartSDR API developers will continue to build new capabilities, carrying your radio into the future with new technological advances we can't even imagine today. You and your radio are constantly evolving — with us.

## REMOTE ACCESS FROM REMOTE OR NOT-SO-REMOTE PLACES .....

SmartLink® is a plug & play native remote feature of SmartSDR™ that allows for almost worldwide connectivity using the Internet as your pipeline to get back to your radio. This means your station is literally wherever you are. While family vacations at the beach should technically be reserved for spending time with family, there's no harm in knowing that you could actually access your radio with ease using SmartLink via your Maestro™, iPad®, iPhone® or laptop. Setup is a breeze and no specialized hardware is needed. Provided you have an Internet connection, you have the ability to operate your station, no matter where you happen to be.

## 2 OPERATORS, 1 RADIO .....

Following the logic that two is better than one, we devised a way to achieve just that. Welcome to multiFLEX™. Simply put, the multiFLEX feature, introduced with SmartSDR v3, allows two clients to connect to your radio at the same time and runs on all models of our 6000-series radios. A client is something like a Maestro, SmartSDR for Windows running on a computer, an iPad or, say, an M-Panel Front Display on a 6000-series radio. multiFLEX allows users to use two of those from different locations at the same time. And because this option is also SmartLink aware, if you have an Internet connection, the possibilities are practically endless.

So, what exactly can you do with SmartSDR with multiFLEX? We thought you'd never ask. Although true, simply saying that multiFLEX enables two people to use your radio at the same time doesn't really tell the story. While the possibilities of multiFLEX are virtually endless, here's what some of our customers do with SmartSDR and multiFLEX:

- help amateurs find the best conditions across the bands by turning a shack into a spectrum monitoring center and showing the entire HF spectrum displayed across two different monitors.
- help a grandfather remotely mentor a grandchild, allowing her to experience the magic of HF while granddad was also on the air.
- help amateurs who live with restricted covenants in a homeowners association (HOA) connect to and use their friends' radios even while their friends are on the air, providing in most cases access to a quieter location.
- help friends band together in a club, building a magnificent station together and then sharing it without having to take shifts.

MultiFLEX provides unparalleled freedom to operate for you, your family, and your friends.

## NEXT STOP: FIND EVERYWHERE .....

As technology continues to amaze, we continue to innovate. Partnering with the greatest thought-leaders and innovators in the amateur radio space, we are committed to finding ways to push the hobby as far as it will allow. And with SmartSDR at the forefront of all our endeavors, an open API for the most imaginative of developers, complete remote capabilities via SmartLink and the shared experience multiFLEX provides, the possibilities of where we can take amateur radio are endless.



# FLEX-6400™ / 6400M™

TALK ISN'T CHEAP.  
BUT IT CAN BE FISCALLY RESPONSIBLE.

There's no rule of law against owning an amazing radio that is affordable. Both the FLEX-6400 and FLEX-6400M offer the latest direct sampling transceiver technology at an economical price for the general HF/6m operator while providing stellar performance for chasing DX and contesting.

## FOR ANYONE WHO LIKES GAME CHANGING.

The FLEX-6400™ is designed for the ham who is looking to operate the radio from a PC, laptop, Maestro™, Mac or iOS client — either local or remote. The 6400M, on the other hand, allows the same client access, but does so 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 – no PC required. 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. Whether you opt for the 6400 or the 6400M, leading-edge technology is in your hands.

## OPERATE FROM ANYWHERE ON THE MAP. OR NOT ON THE MAP.

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®. All you need is an Internet connection and the will to go places you've never gone before.



44.583442°N, 67.650279°W



## SIMPLE ISN'T EASY. BUT THAT'S WHAT WE DO.

We strive to achieve the intuitive and simple in everything we do. With the FLEX-6000 series there is no longer a need for complex configurations to integrate your station. We've kept it simple. With SmartSDR Digital Audio Exchange (DAX) and SmartSDR CAT, gone are the days of a rat's nest of cables and interfaces to make digital modes play nice with an analog radio. One cable, the Ethernet cable, provides a conduit for all digital mode software to interoperate with the FLEX-6000 series. No more hassle. No more cable spaghetti. Just operating pleasure.

## PART RADIO. PART TIME MACHINE.

We believe a real SDR should improve over time. Which is why SDR is so critical to everything we create. 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-6400/6400M ship with the most current version of SmartSDR installed and are eligible for free upgrades to all subsequent releases within the respective major release version number. Regular updates let you tap into additional features and functionality that improve your operational experience.



## NOSTALGIA MEETS FUTURE.

There's just something perfectly analog about turning a knob. So, with that in mind, we continue to go out of our way to make sure our radios are easy to use and control. This means every dial, switch, knob, touchscreen — you name it — should be simple, clear and ergonomic. And there's nothing arbitrary about placement; everything is done with purpose so you can easily find what you need when you need it. This goes down to the controls, which are strategically spaced apart to prevent you from accidentally changing your radio to a different setting. We like to think we've thought of everything. At least for this very moment in time.



## 6400 FEATURES

- No PC Required with the 6400M
- Up to Two Independent Receivers
- Up to Two 7MHz Spectrum Displays
- 8-Inch 1920 X 1200 IPS Display\*
- Ergonomic Workflow
- Wide Spaced/Single-Function Controls\*
- 115dB RMDR
- No Noise Fatigue
- Ultra Low Phase Noise
- Full Break-in QSK CW
- Brick Wall Filters
- Stunning Transmit Audio
- No Complex Setup Required
- Operate Anywhere, Any Time
- Use a Maestro™, iPad®, iPhone® or Laptop
- Across the Country or Across the World
- Complete Control

\*Specific to 6400M Model

[LEARN MORE](#)

39.77°N, 84.42°W

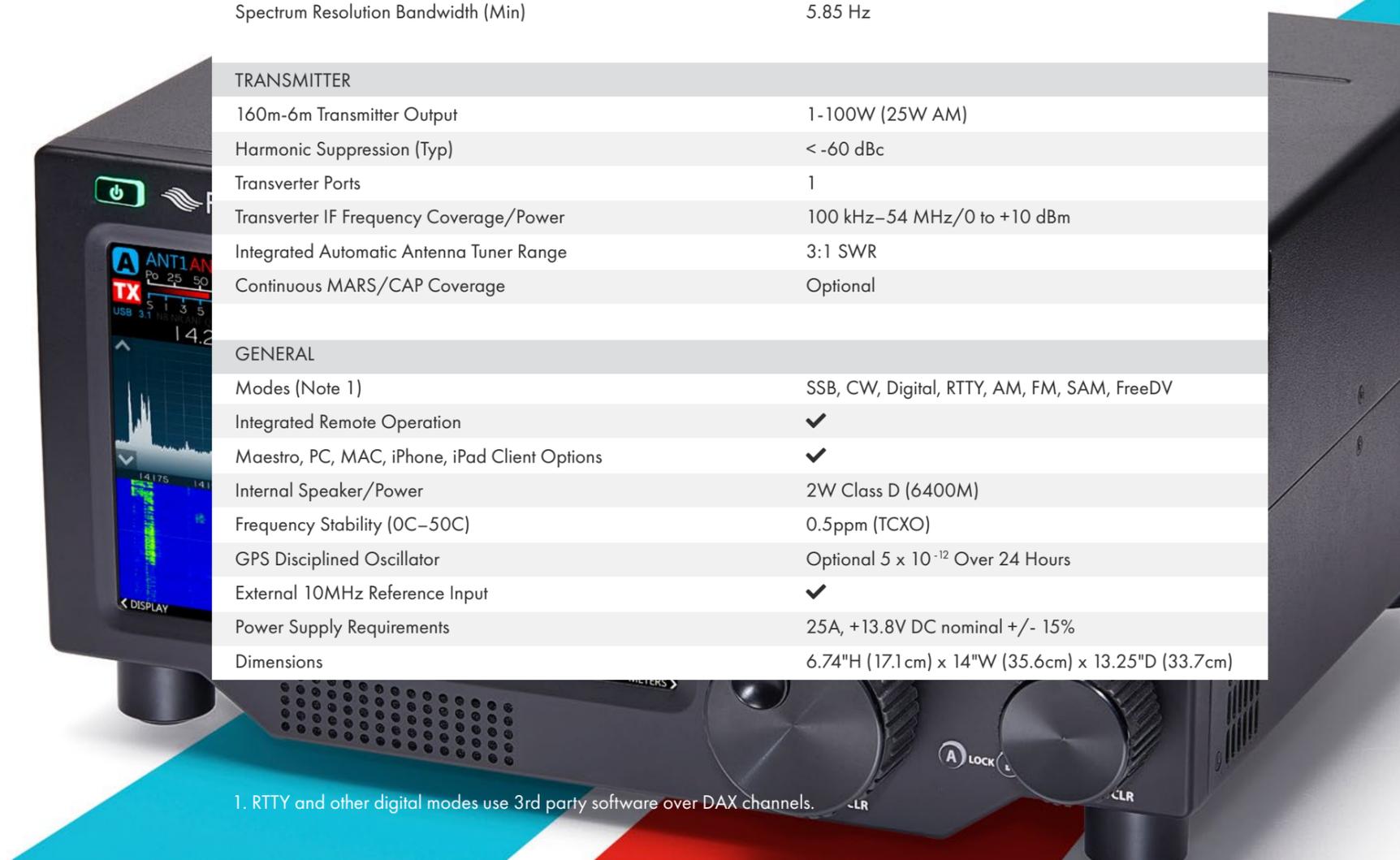
RECEIVER	
Independent Band/Mode Receivers (Max)	2
1/2 kHz Reciprocal Mixing Dynamic Range (RMDR)	110/115 dB
ADC Bits/Sampling Rate	16/122.88 Msps
Frequency Coverage	30 kHz–54 MHz
Amateur Band Preselectors	3rd Order
Cableless Digital Audio Channels (DAX)/DAX IQ Channels	2/2
Receive Only Ports (Base/Including 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/display port (6400M)
Spectrum/Waterfall Displays (Max)	2
Spectrum/Waterfall BW (Min/Max)	5 kHz–7MHz
Spectrum Dynamic Range (Max Zoom)	> 145dB
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 IF 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, Digital, RTTY, AM, FM, SAM, FreeDV
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 <sup>-12</sup> Over 24 Hours
External 10MHz Reference Input	✓
Power Supply Requirements	25A, +13.8V DC nominal +/- 15%
Dimensions	6.74"H (17.1 cm) x 14"W (35.6cm) x 13.25"D (33.7cm)

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



# FLEX-6600™ / 6600M™

WE HAVE SEEN THE FUTURE. AND THEN  
OUR ENGINEERS MADE IT 6.74" X 14" X 13.25".

The FLEX-6600™/FLEX-6600M™ signature series transceiver isn't any ordinary radio, unless you consider two SCUs, software-driven, easy to use and remote from anywhere as being some kind of ordinary. Put simply, our obsession with innovation and finding new ways to evolve the hobby has resulted in what proves to be beautifully simple and will help you find everywhere.

## WE FORGOT TO MAKE IT COMPLICATED.

When you strive for ease of use, simple and intuitive is where you end up. 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, and fewer RFI and cable failures, leaving you more time to operate and find everywhere.

37.97°N, 121.71°W



## STUNNING GOOD LOOKS.

We can't help it that we continue to set the standard for high-resolution, real-time spectral display in amateur radio transceivers. While the form factor of both transceivers is beautiful, the 6600M touts a stunning 8-inch 1920 x 1200 IPS WUXGA touchscreen display. Put simply, your retinas will dance with the integrated display found on the 6600M. And the easily accessible controls right at your fingertips means that your radio will not go unnoticed.

## HEAR WHAT OTHERS CAN'T.

It goes without saying that both the FLEX-6600 and 6600M were conceived to be easy on the ears. And by this we mean stunning transmit audio, 115 dB Dynamic Range and zero noise fatigue. One difference worth noting is that the 6600M does vary from its 6600 sibling in that the 6600M is truly self-contained with a built-in internal speaker.

## YOUR RADIO IS ANYWHERE AND EVERYWHERE.

As much as you love your shack and all its amenities, there's no reason you can't enjoy amateur radio from pretty much anywhere on the planet. With SmartLink®, you have the ability to operate your radio from wherever you might be, provided you have an Internet connection. Just take an iPhone®, iPad®, Laptop or Maestro™ with you and instantly connect to your radio.

## KEEP UP WITH THE FUTURE.

Because we believe a real SDR should improve over time, that's exactly what happens. As FlexRadio continues to evolve and enhance our SmartSDR, you have the opportunity to upgrade your radio with each new release. This means there is no danger of your radio becoming outdated or obsolete. We have created a platform that will allow you to enhance your operating experience with the introduction of new features and functionality.

37.97°N, 121.71°W

# 6600 FEATURES

- No PC Required with the 6600M
- Up to Four Independent Receivers
- Up to Four 14MHz Spectrum Displays
- 8-Inch 1920 X 1200 IPS Display\*
- Ergonomic Workflow
- Wide Spaced/Single-Function Controls\*
- 155 dB Dynamic Range
- No Noise Fatigue
- Ultra Low Phase Noise
- Front-Facing Speaker with 2w Class D Audio Amplifier (6600M)
- True Diversity Reception
- No Complex Setup Required
- Operate Anywhere, Any Time
- Use a Maestro™, iPad®, iPhone® or Laptop
- Across the Country or Across the World
- Complete Control
- Upgrade Your Radio with SmartSDR Updates
- Increase Radio Performance and Features
- Your Radio Evolves with Technology

\* Specific to 6600M Model

[LEARN MORE](#)

RECEIVER	
Independent Band/Mode Receivers (Max)	4
1/2 kHz Reciprocal Mixing Dynamic Range (RMDR)	110/115 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
Cableless 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 S02R 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–14 MHz
Spectrum Dynamic Range (Max Zoom)	> 155dB
Spectrum Resolution Bandwidth (Min)	1.5 Hz
TRANSMITTER	
160m–6m Transmitter Output	1-100W (25W AM)
Harmonic Suppression (Typ)	< -60 dBc
Transverter Ports	2
Transverter IF 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, Digital, RTTY, AM, FM, SAM, FreeDV
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 x 10 <sup>-12</sup> Over 24 Hours
External 10MHz Reference Input	✓
Power Supply Requirements	25A, +13.8V DC nominal +/- 15%
Dimensions	6.74"H (17.1cm) x 14"W (35.6cm) x 13.25"D (33.7cm)

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





RECEIVER	
Receiver Architecture	Direct Digital Sampling
Spectral Capture Units	2
Maximum Slice Receivers	8
Maximum High Resolution Spectrum Displays	8
Maximum Panadapter Width	14 MHz
ADC Resolution	16-bits
ADC Sampling Rate	245.76 Msps
Wideband Frequency Coverage	30 kHz–72 MHz; 135–165 MHz
DAX IQ Channels/Bandwidth Per Channel	4 @ 24 kHz–192 kHz
Amateur Band Preselector Coverage	160m–6m (except 60m)
Preamplifiers/Attenuators	-10 – +40 dB
Spurious and Image Rejection Ratio	100 dB or better
External Powered Speaker Output Impedance Level	600 Ohm Stereo Unbalanced

ANTENNA	
Matching Range 80m–10m	8.3 Ohms–300 Ohms
Matching Range 160 and 6m	16.7 Ohms–150 Ohms

ELECTRICAL	
Power Supply Requirements	+13.8V DC nominal ±15%
Current Drain (Receive/Transmit Max)	3A / 23A @13.8V

MECHANICAL	
Height	4" (10.2cm) with feet; 3.5" (8.9cm) without feet attached
Width	13" (33cm)
Depth	12" (30.5cm) or 13" (33.04cm) with optional front handles
Weight	Approximately 13 lbs (5.9 kgs)
Operating Temperature	0 – +50°C; +32 – +122°F

TRANSMITTER	
Transmitter Architecture	Direct Digital Up-conversion
TX DAC Resolution	16-bits
TX DAC Sampling Rate	491.52 Msps
RF Output Power	1–100W nominal SSB, CW, FM, RTTY, Digital; 1–25W nominal AM
Amateur Band Coverage at Rated Power Output	160m–6m
Low Pass PA Filter Bands	1.8 MHz–30 MHz continuous, 50 MHz–54 MHz
Transverter IF Output Power	+0 dBm Typical; +15 dBm max (+7 dBm, 2m)
Transverter IF Frequency Coverage	100 kHz–72 MHz; 135 MHz–165 MHz
Modulation System	Digital Low Power at Carrier Frequency
Maximum FM Deviation	±5 kHz
DAX Transmit Channel	Yes
Carrier/Unwanted Sideband Suppression	<- 80 dBc typ / <- 80 dBc typ
Spurious Emissions	1.8–50 MHz Amateur Bands: <- 55 dBc; -65 dBc 6m
Transmit Bandwidth	Default 100–2900 Hz (Variable 50–10000 Hz)
Microphone Connectors	Unbalanced 8-pin Foster, Balanced XLR/TRS
Microphone Impedance	600 Ohms Nominal (200-10kΩ)

GENERAL	
2U, 19-inch (48.26cm) Rack Mounting Kit	Optional
Front Handle Kit (adds 1 inch/2.5cm to total depth)	Optional
USB 2.0 Ports (peripheral control)	2
Master Clock Frequency	983.04 MHz
Master Clock Phase Noise	-147 dBc @10 kHz; -152 dBc @ 100 kHz
10 MHz Reference Clock Stability	0.02ppm OCXO
Emission Modes	USB, LSB, CW, RTTY, AM, Synchronous AM, FM, NFM, DFM
Frequency Resolution	1 Hz min.
Antenna Connectors	SO-239x2, BNCx2, XVTRx1
Antenna Impedance (w/o tuner)	50 Ohm Unbalanced



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

# MAESTRO™

## YOU ARE A SUPER-CONDUCTOR.

Maestro™ was designed specifically to open new worlds. And this intuitive, plug-and-play control console does just that. With a state-of-the-art display and thoughtful ergonomics, Maestro directs operation of any FLEX-6000™ Signature Series transceiver without the need of a traditional PC. This means a newfound sense of freedom and a sense of control like never before. Simply connect Maestro directly to your radio or wirelessly through your local area network (LAN) or wide area network (WAN) to any FLEX-6000 series transceiver, and you'll be ready to operate like the super-conductor you were meant to be.

## FUN AND EASE OF USE IN PERFECT HARMONY.

No matter where you fall on the scale in the world of amateur radio, Maestro is the perfect addition to your fleet. Whether you are the most serious of serious contest operators, a DX chaser, rag chewer, or you're just in it to "play radio," Maestro is incredibly intuitive, fun and easy to operate.

It's a console that beautifully and harmoniously combines a high-definition 8-inch touch display in concert with ergonomically designed controls to enhance ease of use while maximizing workflow efficiency in virtually any SmartSDR™ application.

[LEARN MORE](#)



## A SYMPHONY OF SIMPLICITY.

After we interviewed many of the world's top contest/DX operators to better understand their operating styles and goals, "keep it simple" was what we heard the most. Over and over, users communicated that frequently used controls should be intuitive, single function, require minimal hand motion and should be comfortable to use over long periods. Based on these observations, Maestro simply and elegantly orchestrates control function, placement and ergonomics for maximum tempo in the most important configurations, including DX, split, SO2R, Run, S&P and Multi operation.

The controls used most frequently are where they should be: at your fingertips. Controls are clearly labeled for intuitive operation and designed to minimize hand motion for the most common operations. Controls that are used less frequently are still easily accessible on the large touchscreen display, bypassing confusing, multi-level menus found on most transceivers. And like smartphones and tablets today, capacitive touch control is prevalent on the large LCD display for intuitive pan, zoom, tune and menu operation. Everything you can imagine is doable, but with graceful simplicity.

In addition, FlexRadio continues to set the bar for high-resolution, real-time spectral display in amateur radio transceivers. Maestro now extends that same "HD visual radio" capability from the PC-based SmartSDR for Windows to the 8-inch touchscreen format.

## YOUR SHACK IS WHEREVER YOU ARE.

If you've ever longed for the moment when you could monitor the bands or work DX from a lounge chair by the pool or from the comfort of your very own leather recliner — the time is now. Maestro's small footprint and minimal wiring clean up your operating position and let you mount the radio virtually anywhere in the shack or around the house. Its sleek, lightweight design makes it not only the envy of your peers, but also easy to carry or pack. And if you're looking for complete, untethered freedom, the Maestro does support operation by battery.



Maestro shown with special Tilt Hinge Feet. Not Included.

# POWER GENIUS XL™

THERE'S POWER. AND THEN THERE'S POWER.

Chances are, your existing radio does everything promised and then some. It functions flawlessly and performs at a level with little left to be desired. But one can never have too much power. Which is where the Power Genius XL™ comes into play. The Power Genius XL takes your perfectly good radio and amplifies its performance exponentially. It's exceptionally clean and delivers full legal-limit power at 100% ICAS duty cycle. And it's the only fully SO2R-capable amplifier on the market with 70dB nominal isolation between transceiver inputs. Like our entire product lineup, it is monitored and automated through an integral Ethernet connection. It takes your existing radio and turns it into a legal-limit beast.



## PLUG AND PLAY AND TAKE ON THE PLANET.

The Power Genius XL is network capable with an Ethernet connection. This means it completely and seamlessly integrates with any FLEX-6000™ Series radio. And the fully integrated meters and controls allow the amp to be controlled from SmartSDR™, whether on SmartSDR for Windows, iOS or your Maestro™. All through your network. When paired with a FLEX 6000 Series radio, it's a plug & play SO2R that will greatly reduce your station costs. Yes, it's really that simple.

## 1500W OF POWER FROM THE COMFORT OF YOUR OWN WHEREVER.

Without trying to oversimplify the genius of the Power Genius XL, it's an amplifier that you literally just turn on and operate from anywhere. Fully integrated with FlexRadio's SmartLink® Remote, you have on-the-go amplified power, no matter where you are. This means all controls and meters are accessible from anywhere, provided you have an Internet connection.



42.39°N, 18.62°E

## FIRST EVER FEATURES MEAN YOU'RE WELCOME.

There's new to you and there's first ever. The Power Genius XL is pleased to have both. Two of the first ever features we've built into this amplifier include the MEffa system and a vapor chamber cooling system. MEffa™ system (Maximum Efficiency Algorithm) controls efficiency as function of output power. MEffa is a unique technique that changes the DC voltage level to the PA in a manner to match the envelope of the exciting RF in order to yield the most efficiency. And vapor chamber cooling — the first of this in a HAM radio amplifier — is air-cooled with four fans to manage temperatures in there distinct and independent zones internal to the amp.

PA SPECIFICATIONS	
RF Power Output	1500W (ICAS)
Exciter Drive Level	50W Typical (US version)
Transistors	MRF1K50H x 2
Exciter Inputs	SO-239 x 2
Antenna Outputs	SO-239 x 2
Antenna Impedance	50 Ohm Unbalanced
Cooling	Thermally Controlled Fans

MECHANICAL	
Dimensions	5"H x 13"W x 17"D / 15cm x 35cm x 50cm
Weight	37.4 lbs (17kg)
Operating Temp	-25°C to +40°C

ELECTRICAL	
Input Voltage*	90-250VAC, 50/60 Hz
Power Supply	Modular Internal Switching
Current	20A Minimum for Full Power

CONNECTIONS	
Power (See Electrical)	
A and B Drive	
A and B Output	
A and B -60dBc Sample Port	
A and B PTT In	
A and B PTT Out	
A and B CAT	
A and B CI-V	
A and B Band Data IN	
LAN connection	



\* Maximum RF power output achieved using 220 VAC

[LEARN MORE](#)

**GOOD THINGS  
ARE MEANT TO  
BE SHARED.**





# PRODUCT COMPARISON

**WE WILL  
FIND EVERYWHERE.**

51.99°N, 0.7428°W



					
Radio Model	FLEX-6400™	FLEX-6400M™	FLEX-6600™	FLEX-6600M™	FLEX-6700™
MSRP	\$1999	\$2999	\$3999	\$4999	\$6999
100W Transmit Output 160-6m	✓	✓	✓	✓	✓
Maximum Simultaneous Panadapter/Waterfalls & Slice Receivers	2	2	4	4	8
Reciprocal Mixing Receiver Dynamic Range	115 dB	115 dB	115 dB	115 dB	116 dB
ADC Sampling Rate	122.88 Msps	122.88 Msps	245.76 Msps	245.76 Msps	245.76 Msps
Preselectors	3rd Order	3rd Order	7th Order	7th Order	3rd Order
Spectrum/Waterfall Maximum Bandwidth	7 MHz	7 MHz	14 MHz	14 MHz	14 MHz
Automatic Antenna Tuner	OPT	OPT	✓	✓	✓
Cableless Digital Modes	✓	✓	✓	✓	✓
Full Duplex Operation	✓	✓	✓	✓	✓
Simple Remote over Native WAN	✓	✓	✓	✓	✓
Maestro™, PC, Mac and iPad® Operation	✓	✓	✓	✓	✓
External 10MHz Reference Input	✓	✓	✓	✓	✓
Receive Only Inputs Including Transverter Ports	2	2	4	4	3
Continuous MARS/CAP TX Coverage	OPT	OPT	OPT	OPT	✓
GPS Disciplined Oscillator	OPT	OPT	OPT	OPT	OPT
Diversity Reception			✓	✓	✓
Single Radio SO2R			✓	✓	✓
Dedicated Balanced Mic Input (XLR/TRS)			✓	✓	✓
2 Meter RX/TX (5dBm output power)					✓
Integrated Display Resolution		1920x1200		1920x1200	
Integrated Display Size		8 in		8 in	
Touchscreen Type		Capacitive		Capacitive	
External Display Connection		✓		✓	

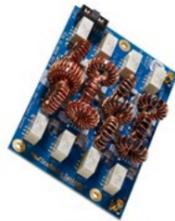
# RADIO ACCESSORIES

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## ATU Kit | FLEX-6400™/FLEX-6400M™

This nice little option for the FLEX-6400™ or FLEX-6400M™ is capable of tuning antennas up to 3:1 or better on 80-10m and 2.5:1 on 160m and 6m. That's a nice little step up.



## Extended Transmit Module Kit | FLEX 6400/6400M & 6600/6600M

For starters, there are several requirements in order to operate with this awesome kit. It's required for MARS, SHARES or other users who require out-of-amateur band transmit. And If you choose to upgrade your radio with this kit, be informed that proof of authorization is required to operate with it. Upon receipt of your proof of authorization, a TURF file will be provided, along with a high-five, by our support department. This nifty module is a transmit filter module that can be user-installed in a 6400/6400M or a 6600/6600M series radio.



## GPSDO Kit | FLEX-6000™ Series Radios

The FLEX-6000™ series of amateur radios are the first products to offer an optional built-in GPS Disciplined Oscillator (GPSDO). The GPSDO plug-in module provides a precision 10 MHz reference for the master oscillator and to a rear-panel 10 MHz SMA output connector as a reference for external precision frequency control. Frequency stability is  $1 \times 10^{-8}$  within 5 minutes at 25° C and  $5 \times 10^{-12}$  over 24 hours with GPS lock. The main radio power LED changes to blue with GPS lock and SmartSDR will show precision time and current location grid square. Rear panel SMA connections are provided for the GPS antenna input and 10 MHz reference output. GPS patch antenna and 15' of RG-174 terminated with SMA connectors included.



## FHM-3 | Hand Mic

The FHM-3 hand mic incorporates a high gain, wide frequency response condenser microphone element. With its ergonomic design and a low resistance PTT button, this microphone is the perfect complement to your FLEX transceiver. If you choose to use the FHM-3 hand mic included in your radio shipment, make sure the bias voltage setting in SmartSDR™ is enabled. Other than that, enjoy chatting with ease.



## FLEXCONTROL | Multifunction Tuning Knob

When you plug this in get ready for a game-changer. With full-time SmartSDR or PowerSDR tuning on older transceiver models, this fully programmable multi-function tuning knob with push buttons gives you control at your fingertips. The USB controller informs with mode and status indicators while it communicates directly with SmartSDR, PowerSDR, and DDUtil software interfaces. Finally, the time-tested ergonomic design feels as smooth as power steering to make sure you stay focused as you navigate the waves.



## FLEX-6400/FLEX-6600™ Handle Kit

These Signature Series Handles for the FLEX-6400 and FLEX-6600 are strong. Made from solid-black, anodized aluminum, they're light, hold tight and match the high-end design of our M-Series Radios. Get a pair and grab hold. (Not installed at the factory.)



## Rack Mounts | FLEX-6400, FLEX-6600 & FLEX-6700™

Attach these Rack Mount to your FLEX-6400/FLEX-6400M, FLEX-6600/FLEX-6600M, or FLEX-6700 series radios, and have no fear — they're going to hold tight. These rock-solid, black, anodized-aluminum mounts are made specifically for our radios so you can confidently mount them with ease. (Not installed at the factory.)



## USB To Serial Adapter Cable | FLEX 6000 Series

This cable plugs into the USB port on the back of any FLEX-6000 series radios to connect to devices requiring a serial connection. Requires SmartSDR version 1.10 or later.



## USB to Parallel Adapter Cable | FLEX 6000 Series

This cable plugs into the USB port on the back of any FLEX-6000 series radios to connect to devices requiring a parallel connection. The cable is terminated by 10 individual wires with single-pole connectors that can be interfaced with a male header. Cable signals are compliant with CMOS logic at 3.3V. The cable is 0.5m long. Requires SmartSDR version 1.10 or later.



## Power Cable | FLEX 6000 Series

This convenient and easy-to-swap cable can serve as a spare or give you an extra for multiple operating positions.

# MAESTRO™ ACCESSORIES



## RJ-45 Cable | for FHM Microphone

This coiled mic cable with RJ-45 connector is a sturdy, 6' long cord when fully stretched out. When paired with the FHM-3 microphone it allows use of the FHM-3 that ships with your radio to work with the Maestro™



## AC Power Supply | Maestro

Whether you're in the US, the UK or the EU, we've got you powered. Because your Maestro can go wherever you go, it's best to make sure you have the right power supply for the right adventure.



**US:** 120/240 VAC to 12 VDC rated at 25W power supply for international usage. AC inlet provides 3-pole IEC320-C14 connector with a US-style power plug.



**UK:** 120/240 VAC to 12 VDC rated at 25W power supply for international usage. AC inlet provides 3-pole IEC320-C14 connector with a UK-style power plug.

**EU:** 120/240 VAC to 12 VDC rated at 25W power supply for international usage. AC inlet provides 3-pole IEC320-C14 connector with an EU-style power plug.



## Tilt Hinge Feet | Maestro

The tilt hinge feet for Maestro are game-changing. Constructed from black, anodized NC-machined aluminum that delivers a solid flexible base that will impress you. The variable viewing angle is maintained by 14 in-lb constant torque hinges that do not require any sort of torque adjustments. And finally, the feet also fold flat against the back of the Maestro for easier transport for when you're on the go.



## Replacement Battery Door | Maestro



## Protective Cover | Maestro

This form-fitting, acrylic cover protects the face and screen of your Maestro from scratches and dust while being transported or sitting idle waiting for you to fire it up.

# MISC ACCESSORIES



## Soft-Side Travel Case

This canvas bag is perfect for the on-the-go ham. The soft-sided interior has plenty of room for a Maestro, headset, keyer, cables and numerous accessory items. Separately, this case can also be used to carry your FLEX-6000™ Series radio. Basically, if you need to take it, this can carry it. And everyone will know you're a Flex Ham because of the nice embroidered logo on the front. What's better than that?

**Approximate dimensions: 6" x 16" x 16".**



## Branded Dust Covers\*

These dust covers are custom made for the FlexRadio line of Amateur Radio Products. They are made from a medium-weight, felt-backed vinyl and include a rear flap for cord access. This is a great way to protect your investment and spruce up your shack in the process.

### Available covers:

**6400 | 6400M | 6600 | 6600M | 6700 | Maestro | PGXL**

\*Please note that these covers are intended to be used only when the item is NOT IN USE.

# RESELLERS

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