

SmartSDR+ v4.1.3 Release Notes

Version	Release Date	Release Theme/Title
4.1.3	2025-12-03	Aurora Support and SmartSDR+ v4.0.1 Feature Activation

SmartSDR Basic[™] and SmartSDR+[™] v4.1.3 is a software and firmware release for Aurora[™], FLEX-8000[™], and FLEX-6000[™] series of software defined radios (SDRs), and the Maestro[™]. This version supersedes all previous versions of SmartSDR.

Description of SmartSDR Basic, SmartSDR+, and SmartSDR+ Early

Access Feature License Tiers:

SmartSDR v4 Basic is available **free of charge** and includes all bug fixes and select minor feature enhancements for all radio models. **We strongly encourage all customers to upgrade to SmartSDR v4.**

If you are currently running SmartSDR v2 and upgrade to SmartSDR v4 Basic, you will receive all prior bug fixes and minor enhancements from all previous versions. However, please note that multiFlex, the major feature introduced in SmartSDR v3, is not included in SmartSDR v4 Basic for radios licensed for SmartSDR v2. For radios licensed for SmartSDR v1, the SmartLink feature introduced in SmartSDR v2, along with the multiFlex, is not included in SmartSDR v4 Basic.

SmartSDR+ is an <u>optional one-year new feature license</u>. When you purchase a SmartSDR+ feature license, you gain or retain access to all prior SmartSDR v2 and v3 major features, as well as all new SmartSDR v4 major features released during your one-year license period. All new SmartSDR v4 features are only available immediately for SmartSDR+ Early Access feature license radios. Radios that have a SmartSDR+ feature license will gain access to the new features approximately 30 days later with a follow-up SmartSDR v4 software release. To get the new SmartSDR v4 features immediately, a SmartSDR+ Early Access license is required (see below).

When your one-year feature license expires, you **retain all features** received during that period—<u>you never lose them</u>. To gain access to **any new features** introduced after your license period ends, simply **renew your SmartSDR+ license for an additional year.**

SmartSDR+ Early Access is an optional one-year SmartSDR+ feature license that provides all the benefits of SmartSDR+, with the added advantage of early access to new features *approximately* 30 days before they are available for standard SmartSDR+ feature license holders. As part of the Early Access Program, participants are invited to share feedback with the software engineering and product management teams based on their experience with the preview software. This collaboration helps shape and refine future SmartSDR releases.

Important Release Information

Before upgrading, please read all sections marked as **IMPORTANT** for upgrade prerequisites and other important information.

Important Notice: Beginning with SmartSDR v4.0.1, the SmartSDR hardware license installed on your radio must be revalidated or updated after purchasing a SmartSDR+ Feature License by connecting to the SmartSDR License Server. To complete this process, ensure that your radio is connected to a network with Internet access. The radio will automatically download any new licenses when it is booted. Once your SmartSDR license has been successfully validated, the radio will not need to reconnect to the License Server unless you purchase a new SmartSDR+ feature license.

SmartSDR+ v4.1.3

New SmartSDR+ Early Access Features:

There are no SmartSDR+ Early Access Features included in this software release.

New SmartSDR+ Features:

Below are the SmartSDR+ Early Access 4.0.1 features now enabled for SmartSDR+ Feature License users.

Feature	Description	Supported Radio Models
	New DSP Noise Mitigation : We have updated and added a variety of new noise reduction/mitigation algorithms to the Aurora, FLEX-8000, and FLEX-8000 series radios. The new noise mitigation features are designed to cater to different types of noises, environments, and setups. Multiple Noise Mitigation functions can be used simultaneously. Toggle the various noise mitigation functions on and off to taste.	¹ Aurora ¹ FLEX-8000s ² FLEX-6000s
SMART-11431	NRF ¹ - Spectral Subtraction Filtering Algorithm NRS ¹ - Spectral Subtraction with Voice Detection RNN ¹ - AI Noise Reduction NRL ^{1,2} - NR algorithm using LMS (Least Mean Squares) ANFL ^{1,2} - ANF algorithm using LMS ANFT ^{1,2} - ANF algorithm using FFT (Fast Fourier Transform)	
SMART-3985	Digital Voice Keyer: Digital Voice Keyer (DVK) allows recording, playback, and transmission of up to 12 voice recordings stored on the radio.	Aurora FLEX-8000s FLEX-6000s
SMART-10570	Enhanced Signal Clarity (ESC): ESC is a unique diversity reception feature that is only available on dual SCU radios. Enhanced Signal Clarity (ESC) in diversity. ESC combines signals from multiple antennas to optimize audio receive capabilities via beamforming/null forming. Used to accentuate desired signals (constructive interference patterns) or to remove undesired signals (destructive interference patterns) to improve signal quality. This does not affect the displayed panadapter or waterfall, but metering will be affected.	AU-520(M) FLEX-8600(M) FLEX-6700 FLEX-6600(M)
SMART-9958	Relative Noise Floor Scaling: This feature automatically adjusts the displayed noise floor to maintain a visually consistent reference level as you operate on different bands and antennas. This feature makes it easier to compare signal strengths and visually interpret band conditions.	Aurora FLEX-8000s
SMART-11332	CW Auto Tune: Introducing CW Auto Tune. CW Auto Tune automatically tunes the active slice receiver to CW signals within the passband, simplifying the process of locking onto CW transmissions. There are two modes of operation: One-Shot or Intermittent Mode.	Aurora FLEX-8000s FLEX-6000s
5N// III 11332	 One Shot - Auto tunes once to the highest signal on the click of the AUTOTUNE button Intermittent – Continuously auto-tunes to the highest signal every two seconds while the AUTOTUNE button remains enabled. 	

New SmartSDR Basic Features and Bug Fixes:

Below are the new minor feature enhancements and bug fixes available to all radios running SmartSDR Basic. Please refer to the SmartSDR v4 Changelog for a complete listing of all SmartSDR v4 software and firmware changes.

Feature/Defect	Description
	Software support of the Aurora radios AU-510(M) and AU-520(M)
SMART-12007	Improved database migration between updates. It is still required to factory reset your radio after a software downgrade
SMART-11578	Fixed NRL operational inconsistencies
SMART-11900	Fixed NR operational inconsistencies
SMART-11902	Fixed NR operation during transmit
SMART-12033	Fixed an issue where NR muted Slice B
SMART-11923	Fixed NR status message errors
SMART-11977	Fixed ANFT removing all audio when directly on top of an AM carrier
SMART-11986	Fixed ANFL not working on SSB
SMART-11987	Fixed NB for FLEX-6000 Series Radios
SMART-11744	Fixed an issue where DAX audio was briefly transmitted at the time of PTT
SMART-11799	Fixed a profile Import/Export bug
SMART-11995	Fixed the MIC and TX profile issue where not all settings were saved
SMART-11885	Fixed issue affecting FLEX-6000 Series, where a snare drum-like noise would happen when turning NR off with NRL enabled
SMART-11899	Moved the Maestro DVK menu up to just below Memory
SMART-11973	Fixed the Maestro DVK Menu needing to be scrolled to see the subscription notification
SMART-11974	Fixed Maestro DVK Menu displaying the keyboard, but not allowing edits
SMART-11998	Fixed multiple F-key selections of DVK overriding each other
SMART-11955	The Escape key now stops DVK playback in progress
SMART-12028	Improved error handling and reporting of DVK imports
SMART-12055	Improved DVK F-keys experience on Maestro
SMART-11910	Fixed the brief display issue with blank panels when launching SmartSDR
SMART-11914	Noise Mitigation options are now hidden in OPT modes on Maestro
SMART-11920	Made SmartSDR+ licensed radios show the Get SmartSDR+ button access when close to expiration for clarity
SMART-11943	Fixed error when using License Upload and clicking cancel or closing the file selection
SMART-11951	Fixed TGXL ATU Tune staying in two-tone mode (will now properly use single tone)
SMART-11954	Fixed an issue where toggling ESC would peg the S-meter on FLEX-8000 Series Radios
SMART-12021	Improved the ESC UI experience by making the child slice audio controls inaccessible
SMART-11958	Fixed ESC Slice audio panning inconsistency. Now your DIV and ESC slice audio settings will be saved independently. DIV defaults to a level of 50 with left/right pan. ESC defaults to a level of 50 panned in the center.
SMART-12019	Enabling ESC now shows the child slice as muted
SMART-11965	Resolved signal chain inconsistencies across platforms

SMART-11968	Added warning language about database/factory reset when downgrading versions
SMART-11971	Fixed Maestro DIV ESC display staying open when DIV is disabled
SMART-12000	Fixed DIV ESC not working at gain level 0
SMART-11853	Added band persistence to new noise algorithms
SMART-11926	Fixed API usage error showing agc_off_level out of bounds (1663053885) for valid levels
SMART-11952	Fixed N1MM Voice Keyer Mic command not being honored
SMART-11970	Fixed issue where APD was incorrectly displayed on FLEX-6600M
SMART-11976	Fixed missing FM options in the slice flag
SMART-12015	Added CW AutoTune to Maestro and M-Model Function Key lists
SMART-12032	Fixed an issue where RCA TX REQ inhibited transmit for the Bands not selected in TX Band Settings
SMART-12048	Added new Noise Filtering algorithms to Profiles
SMART-11304	Improved APD experience when it became inoperative after multiple power settings changes, and failed to calibrate
SMART-11953	Update EULA with Company Name, FLEX-8000 Series, and Aurora radios
SMART-10822	Fixed CW Delay settings from changing when ATU is enabled on FLEX-8000 radios
SMART-11981	Improved handling of v1 and v2 radios connecting to SmartSDR v4+
SMART-12049	Fixed an issue that would cause motorboating-like noise when adjusting XIT

How To Use SmartSDR+ v4.1.3 Features:

DSP - Noise Mitigation Features

SmartSDR offers a variety of noise mitigation features to cater to different types of noises, environments, and setups. Multiple Noise Mitigation functions can be used simultaneously. Toggle the various noise mitigation functions on and off to taste. The user interface has been simplified to on/off buttons for ease of use.

Noise Mitigation features available in previous versions of SmartSDR are available with the SmartSDR Basic license. New Noise Mitigation features require SmartSDR+ or SmartSDR+ Early Access feature license.

In SmartSDR for Windows, Noise Mitigation features are available in the Slice's DSP drop-down menu.

In Maestro/M-Model, Noise Mitigation features are available in the Slice menu.

SmartSDR Basic

- **NR** (Noise Reduction) Same NR as before, but the algorithm has been improved Useful for reducing uncorrelated "white" noise.
- NB (Noise Blanking) Same NB as before Useful for reducing fast rise time noise from sparks and other pulse-type sources
- **ANF** (Automatic Notch Filter) Same ANF as before, but the algorithm is improved Attenuates persistent unwanted signals.
- WNB (Wide Noise Blanker) Same WNB as before, but this function is now only located in the Antenna menus.

SmartSDR+

- NRF A Spectral Subtraction Filtering Algorithm This algorithm continuously computes the probability of speech and noise for each frequency in the passband, along with a corresponding gain to remove the possible noise. This algorithm is intended for stationary noise that does not change rapidly. Only available on 8000 Series Radios.
- NRS Spectral subtraction with Voice Activity Detection. Only available on 8000 Series Radios
- RNN Noise suppression using a recurrent neural network, to remove noise from speech audio.
 Only available on 8000 Series Radios
- NRL NR algorithm using the leaky normalized LMS Algorithm. This adapts to isolate correlated signals and eliminate uncorrelated audio like noise.
- ANFL ANF algorithm using the leaky normalized LMS Algorithm, which adapts to isolate uncorrelated signals and eliminate correlated audio like loud hums and tones. If no hum or loud tone is present, this algorithm can remove the desired signal. It is useful to think of this as removing the output of NRL and keeping the uncorrelated noise, which could contain the desired signal if a really loud tone or hum is present.
- **ANFT** ANF algorithm using FFT. ANFT is intended to remove tone noise caused by leaking power supplies, transformers, or unbalanced grounding. This filter can remove up to five tones from the passband greater than or equal to -110dB.

Digital Voice Keyer (DVK)

The **Digital Voice Keyer (DVK)** enables the recording and playback of up to **12 voice messages** stored directly on the radio. DVK simplifies contesting and repetitive voice operations by allowing quick transmission of pre-recorded messages.

Accessing the DVK Menu

- SmartSDR for Windows: Click DVK in the lower-left corner of the application to open the DVK Menu.
- Maestro and M-Model Radios: Open the Menu, then select DVK to access the DVK Menu.

Note: Upload and download of recordings are not supported on Maestro or M-Model interfaces. To manage WAV files, connect via **SmartSDR for Windows**.

DVK Controls

- Record / Stop: Begins recording on the highlighted slot. Select Stop to end the recording. Each slot supports recordings up to 10 seconds in duration.
- **Preview:** Plays the highlighted slot's recording without keying the transmitter.
- Upload: Imports a previously recorded WAV file into the selected slot. Supports 2-track, 32-bit float, 48
 kHz WAV files up to 10 seconds. (SmartSDR for Windows only.)
- **Download:** Exports the selected slot's **2-track, 32-bit float, 48 kHz** WAV file. (SmartSDR for Windows only.)
- **Clear:** Deletes the highlighted slot's recording.
- Playback: Plays and transmits the selected slot's recording.
- Shortcuts: Enables or disables F1–F12 key shortcuts. When enabled, each F-key triggers the playback and transmission of its assigned recording. (SmartSDR for Windows only.)
- ESC key: Terminates the currently playing recording.

On the **Maestro** and **M-Model** radios, DVK recordings can be assigned to **F-Key** functions for quick access during operation.

Enhanced Signal Clarity (ESC)

Enhanced Signal Clarity (ESC) leverages diversity reception to combine signals from multiple antennas, optimizing receive performance through dynamic beam forming. This feature can be used to accentuate desired signals or suppress unwanted ones, improving overall signal clarity and intelligibility.

Controls:

- On Maestro, ESC is enabled in the Slice Menu when DIV (diversity) mode is active.
- In SmartSDR for Windows, ESC is accessed from the Slice DSP drop-down menu when DIV is enabled.

Operation:

- Toggle ESC on or off using the ESC button.
- Adjust the Phase fader to control the phase relationship between antennas.
- Adjust the Gain fader to set the contribution level of each antenna.
- Use the **180°** button to instantly invert the phase relationship.

Once you find the phase "sweet spot" for the signal you are trying to enhance, then change the amount of magnitude (gain) of the combined signals to reach an enhancement maximum. This may sound a bit complicated, but once you do it a few times, it becomes second nature, and you can null form or beam steer a signal of interest easily.

Relative Noise Floor Scaling

Relative Noise Floor Scaling automatically adjusts the displayed noise floor to maintain a visually consistent reference level as you navigate the radio and change bands. This feature makes it easier to compare signal strengths and visually interpret band conditions.

To enable **Relative Noise Floor Scaling**, open the **Display** menu and set **Floor** to **On**. Use the **Floor** slider to position where the noise floor appears within the **Panadapter** view.

When Floor is set to On, the Panadapter display is vertically locked, ensuring the noise floor remains fixed at the chosen reference point regardless of band or frequency changes and stays fixed regardless of the noise floor level.

CW Auto Tune

CW Auto Tune automatically tunes the active slice receiver to CW signals within the passband, simplifying the process of locking onto CW transmissions.

CW Auto Tune controls are available in the Active Slice panel in SmartSDR and in the Slice Menu on Maestro.

Two operating modes are provided:

- One Shot Tunes once to the strongest CW signal in the passband when the AUTOTUNE button is clicked.
- **Intermittent** Continuously tunes to the strongest CW signal every two seconds while the **AUTOTUNE** button remains enabled.

SmartSDR v4 Best Practices

Best Practices for Installing SmartSDR

Always back up your Global, TX (transmit), and Microphone Profiles. For detailed instructions on exporting your profiles to a file on your PC, refer to the SmartSDR for Windows Software User's Guide. It is recommended to export all profiles before upgrading to v4.1.3. Maintaining a good set of profile exports as backups is always a best practice. Moving back and forth between different versions of SmartSDR may result in data loss unless you have a backup (export) of your Profiles.

Ensure your Windows operating system is up to date before installing SmartSDR for Windows. The proper operation of SmartSDR for Windows and its associated drivers relies on having an up-to-date and supported Windows operating system, including the root security certificates. It is strongly recommended that you run Windows Update and install all mandatory and optional updates before installing SmartSDR for Windows.

Power cycle the radio before installing a new version of SmartSDR for Windows. To ensure a seamless upgrade, it is recommended that you power cycle your radio *before* installing the SmartSDR for Windows software on your PC and updating the radio firmware.

"Cold Boot" the radio after upgrading the radio firmware. Using the power button, shut down the radio, then disconnect it from DC power for approximately 30 seconds. This procedure "cold boots" the radio and helps ensure proper operation. Once DC power is restored to the radio, wait 2 minutes to ensure all internal processors have booted up completely before booting your radio.

Managing SmartSDR installed on other devices. If using Maestro or other PCs running SmartSDR for Windows, update all devices at the same time to ensure a consistent operating experience and to avoid radio firmware upgrade/downgrade delays.

Always perform a Factory Reset of your Radio when <u>Downgrading</u> the Radio Firmware: In general, downgrading to a previous version of SmartSDR is not recommended. The database in the Aurora, FLEX-8000, and FLEX-6000 is NOT backwards compatible. This means if you downgrade the firmware in your radio, you *must perform a Factory Reset* to ensure the internal database is consistent with the version of SmartSDR firmware that is running on the radio.

Important: If the radio is not operating properly immediately after upgrading, please perform a factory reset and refrain from importing any exported profiles. The database may be inconsistent and require resetting to a default state.

The procedure for performing a Radio Cold Boot and Factory Reset is described below.

In addition to performing a Factory Reset on the radio, you mustn't import a database using a profile export that is *greater* than the version you are using with your radio. The profile export file name contains the version of SmartSDR that was running when the export was saved to your PC for easy version identification.

Best Practices for installing SmartSDR for an "M" Model or Maestro

The following best practices are applicable only when installing a new version of SmartSDR on a Maestro.

Both the Maestro and "M' Model radios must have network access that allows connectivity to the Internet to download the new SmartSDR software.

Ensure your Maestro has a reliable power source. Make certain the supplied AC adapter is used to power the unit. This prevents the Maestro from losing power during an update.

Ensure your Maestro has a reliable network connection. The Maestro and radio firmware are upgraded entirely through the network connection. When upgrading a Maestro, a wired Ethernet connection is recommended; wired Ethernet connections are faster and more reliable than Wi-Fi.

Uninstalling Previous Versions of SmartSDR for Windows – Is It Necessary?

In general, the answer is no, but there are considerations when more than one version of SmartSDR is maintained on your system.

Currently, every version of SmartSDR for Windows is installed independently of each other, permitting the use of previous versions and supporting convenient version switching of both software and radio firmware as long as there are no software or database dependencies that prevent backward compatibility.

SmartSDR for Windows Shared Components: The SmartSDR software employs shared components used by all versions of the software. When previous versions of SmartSDR for Windows are uninstalled, it may result in the removal of one or more of these shared components, which may make all versions inoperable. Therefore, if you desire to uninstall an older version of SmartSDR, we highly recommend uninstalling all previous versions of SmartSDR before installing a new version of SmartSDR for Windows.

Important: Removing the DAX and FlexVSP drivers is not recommended unless explicitly instructed in the Release Notes or by FlexRadio Support.

How to Perform a Radio Cold Boot and Factory Reset

NOTE: Before starting, shut down all programs that may interface with the radio, such as loggers, digital mode programs, and NodeRed devices.

NOTE: If you have anything connected to the REM ON connector on the back of the radio, please remove it before running the reset procedure. The REM ON device can be reconnected once the reset procedure is finished.

Before you get started, please note the "wait times" in the steps listed below. These are important to ensure the radio resets properly.

- Power off the radio by pressing and releasing the power button. Allow it to completely power down before continuing by waiting for the power LED to turn off (or amber if an FLEX-6000 GPSDO is installed). If pressing and releasing the power button does not shut down the radio, press and hold the power button until the radio shuts down. If this does not work, turn off the DC power supply to shut down the radio.
- Once the radio is powered off, wait for 2 minutes to allow all processors to shut down completely.
- Remove the power cable from the radio for at least 30 seconds and then reconnect it. It is important to remove the power cable from the radio and not just turn off the power supply.
- After reconnecting the DC power cable, turn the DC power ON and wait for 2 minutes to allow the internal PSoC processor to boot up completely before continuing.

For FLEX-6700 and FLEX-6500:

- Press and hold the OK button while simultaneously pressing and releasing the Power button.
- Release the **OK** button once the power LED turns white and allow the radio to continue booting normally. When the Power LED is solid green, the radio has completed the boot-up process.

For Aurora, FLEX-8x00(M), FLEX-6x00(M), and FLEX-6300:

 Press and hold the Power button for approximately 5 seconds until the Power button LED turns white. After the power button turns white, release the **Power button** and allow the radio to continue booting, indicated by a flashing green power button LED. When the Power button LED is solid green, the radio has finished booting.

Depending on several factors, it may take a few minutes for the radio to finish booting, so please be patient and allow it to boot up completely.

Known Issues:

Reverting to previous versions of SmartSDR is not recommended. **However, if you revert from any version of SmartSDR to a previous version, you must perform a factory reset of your radio**. Database incompatibilities may result in operational anomalies when reverting to previous versions of SmartSDR. It is recommended that a factory reset be performed after downgrading to ensure the database schema is 100% compatible with the version being used.

SmartSignal Beta

Important: The following caveats apply to the beta version of SmartSignal.

- **APD Generation:** The Automatic Adaptive Pre-Distortion is generated from the transmitting slice. In a multi-Slice scenario, this can become more complicated, but typically follows the Local PTT TX slice.
- Internal Sampler Requirement: Currently, SmartSignal can only be utilized alongside the internal sampler in the FLEX-8000.
- **Best Performance with Voice Signals:** The feature achieves the highest success rate when employed with voice transmissions.
- **Challenges with 6M Band:** Generating an equalizer on the 6-meter band can be more complicated and less reliable.
- Challenges with AM Signals: Similar to the 6M band, creating an equalizer with AM signals is also more challenging.
- **Limited Performance in multiFLEX Scenarios:** The feature exhibits quirks in multiFLEX scenarios and may not deliver the desired results.
- Occasional APD Stuck in "Calibrating Mode": There are instances where the SmartSignal may become stuck in
 "calibrating mode." This can happen if it cannot identify a better solution than a previously stored one. If this
 occurs, rebooting the radio may be necessary to resolve the issue and enable SmartSignal to reattempt the
 calibration.

End of Windows 10 Support. Effective October 14, 2025, Microsoft officially ended support for the Windows 10 operating system. As a result, **FlexRadio has discontinue official software and technical support for Windows 10 after this date**. Customers who continue to use Windows 10 may experience compatibility, performance, or security issues. Our Support Team will no longer provide troubleshooting or technical assistance related to Windows-specific issues for systems running Windows 10, and any software bugs specific to Windows 10 will not be addressed.

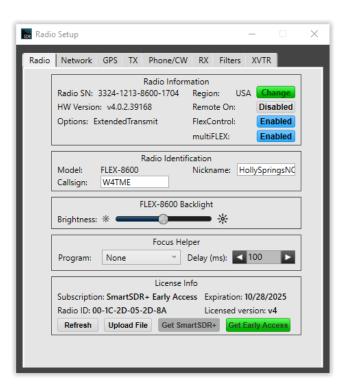
Purchasing SmartSDR+ Feature Licenses:

Starting with SmartSDR v4.0, you can choose to purchase a one-year SmartSDR+ or SmartSDR+ Early Release feature license to access the new SmartSDR v4 features. For more information about SmartSDR+ or the SmartSDR+ Early Release licenses, please see page 1 of this document.

Use the following procedures to purchase a feature license for your radio. Once purchased, the SmartSDR+ or the SmartSDR+ Early Release feature license is installed on the radio used to purchase the feature license. If you own multiple Aurora, FLEX-8000, or FLEX-6000 radios, each radio will need its own feature license.

SmartSDR for Windows

- 1. Open SmartSDR v4 for Windows on your PC.
- 2. **Connect to the radio** for which you want to install the feature license. *This step is mandatory before proceeding.*
- From the menu bar, select the Settings → Radio Setup → Radio tab.
 The Radio Setup window will appear.



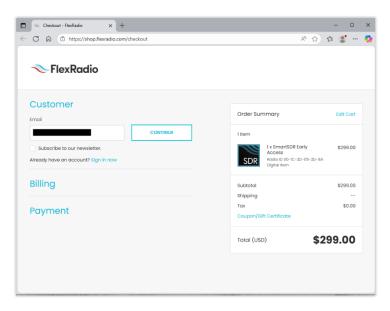
- 4. In the License Information area:
 - If the Get SmartSDR+ or Get Early Access buttons are grayed out, the radio already has the corresponding feature license installed. The option(s) in green are available for purchase.

(Note: In this example, even though the radio has a valid SmartSDR+ Early Access feature license that expires on 10/28/2025, the "Get Early Access" button was green because it is within 30 days of the feature license expiring.)

- o To purchase a feature license, click the appropriate button:
 - Get SmartSDR+ for a standard SmartSDR+ license.
 - Get Early Access for the SmartSDR+ Early Access option.

- 5. The **Purchase** web page will appear.
 - Enter your email address.
 - o Click Continue.

(Note: the email address in the example image is redacted.)



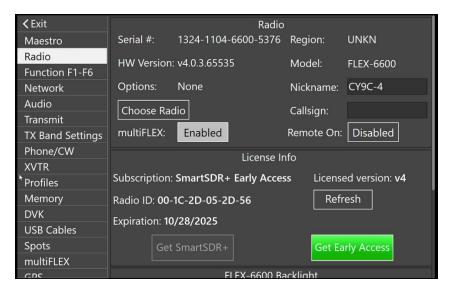
- 6. The Billing web page will appear.
 - o Enter your billing information.
 - o Click Continue when finished.
- 7. The **Payment** web page will appear.
 - Enter your payment method.
 - o For the Require Signature at Delivery option, select **No**.
 - Click Place Order to complete your purchase.
- 8. Once the license has been purchased, install the newly purchased license by clicking on the Refresh button in the **License Info** section of the **Radio Setup -> Radio** tab.

SmartSDR for Maestro and M Model Radios

1. From the main screen, tap the **MENU** button located at the top center of the screen.



2. Select the **Radio** submenu located on the left-hand side bar, as shown below.



3. In the **License Information** area:

- o If the **Get SmartSDR+** or **Get Early Access** buttons are *grayed out*, the radio already has the corresponding feature license installed. The option(s) in green are available for purchase.
- To purchase a feature license, click the appropriate button:
 - Get SmartSDR+ for a standard SmartSDR+ license.
 - Get Early Access for the SmartSDR+ Early Access option.

(In this example, "Get Early Access" was selected.)

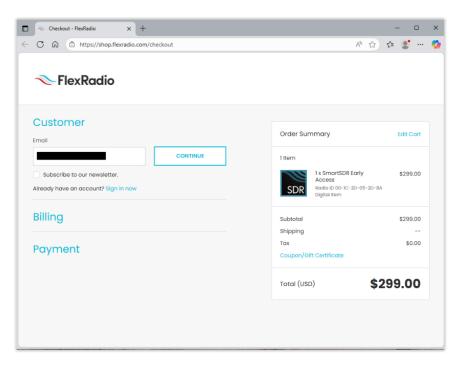
4. The **Purchase** QR Code screen will appear.

 Using a Smartphone or tablet, scan the QR Code. This presents a link (URL) that must be opened in a web browser to access the web page used to purchase the SmartSDR feature license, as shown below.



- 5. The **Purchase** web page will appear.
 - Enter your email address.
 - Click Continue.

(Note: the email address in the example image is redacted.)



- 6. The **Billing** web page will appear.
 - o Enter your billing information.
 - Click Continue when finished.
- 7. The **Payment** web page will appear.
 - o Enter your payment method.
 - o For the Require Signature at Delivery option, select No.
 - o Click Place Order to complete your purchase.
- 8. Once the license has been purchased, install the newly purchased license by clicking on the **Refresh** button in the **License Info** section of the **Radio** submenu screen.

Installing SmartSDR and Updating the Radio Firmware:

Installing SmartSDR for Windows on a PC

1. Download SmartSDR for Windows

- o Open a web browser and navigate to the FlexRadio website.
- Locate the latest version of SmartSDR for Windows on the <u>Newest Releases</u> webpage.
- Download the installer file to your PC.

2. Start the Installer

- o Double-click the downloaded **SmartSDR Installer** program to begin the installation.
- o If the **User Account Control** prompt appears asking, "Do you want to allow this app to make changes to your device?" confirm that the app is **SmartSDR Setup** and click **Yes**.

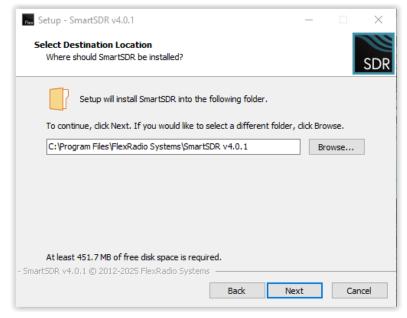
3. Accept the License Agreement

When the License Agreement screen appears, select I accept the agreement, then click Next.



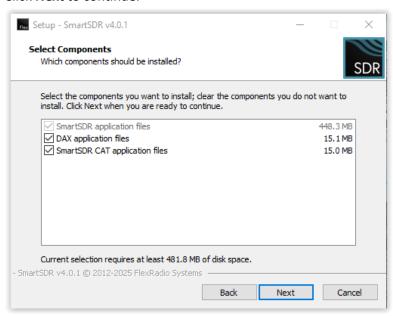
4. Select Destination Location

- On the Select Destination Location screen, keep the default installation path.
- Click Next to continue.



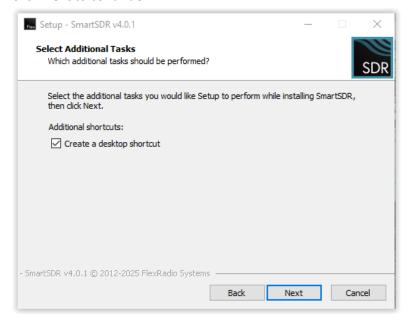
5. Select Components

- o On the **Select Components** screen, keep the **default options** selected.
- This ensures that the latest versions of DAX and the FlexVSP driver are installed.
- Click Next to continue.



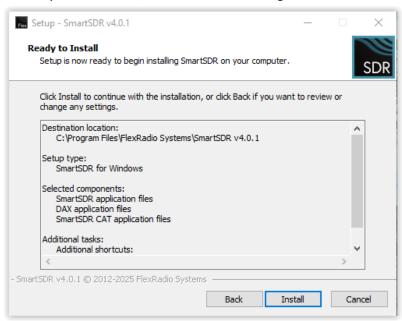
6. Select Additional Tasks

- o On the **Select Additional Tasks** screen, leave **Create a desktop shortcut** checked.
- Click Next to continue.



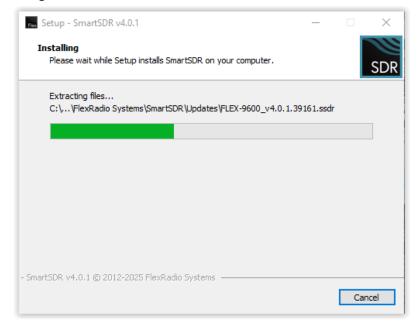
7. Ready to Install

o Review your selections, then click **Install** to begin installation.



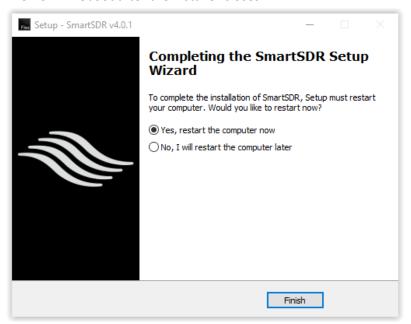
8. Installation Progress

- o The Install screen will display progress.
- During this process, you may briefly see Windows Command Prompt windows appear while drivers are being installed.



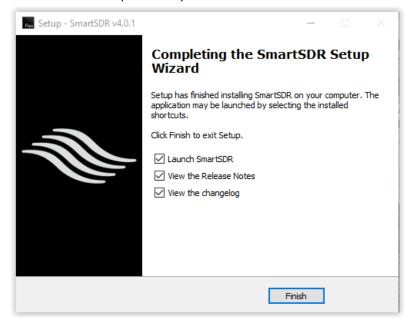
9. Restart Your Computer (if required)

- When installation finishes, if new drivers were installed, you will be prompted to restart your PC.
- Leave Yes, restart the computer selected, and click Finish.
- The PC will reboot after the installer closes.



10. Complete the Installation (no restart required)

- o If no drivers were installed or updated, the **Completing the SmartSDR Setup Wizard** screen will appear.
- Leave all options checked.
- It is recommended to review the Release Notes and Changelog for information about new features and bug fixes.
- Click Finish to complete setup.



Updating the Radio Firmware

Once SmartSDR for Windows is installed, follow these steps to update your radio's firmware:

- 1. Launch SmartSDR for Windows.
- 2. In the Radio Chooser screen, highlight the desired radio showing the Update status indicator.



- 3. Click **Update** to begin the firmware update process.
 - The radio status will change to Updating..., and a progress indicator bar will be displayed.
 - The radio's power button LED will turn purple while the firmware update is in progress.



- 4. When the update completes, the radio will **automatically reboot**.
- 5. After rebooting, return to the **Radio Chooser** screen.
 - o Highlight the radio with a status of **Available**, and click **Connect** to begin operation.



Documentation:

The following documentation and how-to guides for SmartSDR are available as a convenient download from the FlexRadio website.

- SmartSDR v4 Changelog
- SmartSDR for Windows Software User's Guide
- SmartSDR CAT User Guide
- FLEX-8000 Hardware Reference Manual
- FLEX-6400M and FLEX-6600M User's Guide
- FLEX-6000 Signature Series Hardware Reference Manual
- FLEX-6400 and FLEX-6600 Hardware Reference Manual
- SmartLink for SmartSDR Quick Start Guide
- USB Cable Interface Guide

Technical Support:

If you encounter any issues installing or operating SmartSDR for Windows with your FlexRadio Signature Series software defined radio, please use our online <u>Community</u> to search for information about SmartSDR and the Aurora, FLEX-8000, and FLEX-6000. Refer to the <u>Community Message Board</u> for assistance using the Community.

If you are unable to find an existing answer to your issue via the Community, please contact FlexRadio Technical Support by opening a HelpDesk support ticket online.

Refer to the HelpDesk article <u>How to Submit a Request for Technical Support</u> for details on how to submit a HelpDesk support ticket.

Hours of Operation: Our Technical Support engineers are available Monday through Friday from 7:00 AM to 4:00 PM Central Time. If you open a HelpDesk ticket after business hours, on a holiday, or weekend, we will respond to your request for assistance during regular business hours in the order your HelpDesk ticket was received.

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