



SDRplay Limited.

Software Defined Radio API Release Notes

Applications

Revision History

Revision	Release Date:	Reason for Change:	Originator
1.0	03/Jun/2013	First Release	IH
1.1	31/July/2014	Hardware & 1.1.0 API	APC
1.2	16/October/2014	API 1.2.0 release & tidy	APC
1.3	13/February/2015	USB3 compat hw driver	APC
1.4	13/August/2015	New API & HW Driver	APC
1.5	23/August/2015	Driver fixed for tablets	APC
1.6	22/December/2015	DC/IQ compensation & new gain map (API 1.8.0)	APC
1.8.1	11/January/2016	Reduce minGR value (API 1.8.1)	APC
1.94	11/July/2016	Range of new functions	APC
1.95	12/July/2016	Fixed PPM function	APC
1.97	19/September/2016	New AGC + DC offset schemes	APC
2.04	22/November/2016	Update for RSPII	KA
2.05	30/November/2016	Modified return from mir_sdr_GetDevices	KA
2.06	1/December/2016	Added mir_sdr_ReleaseDeviceIdx, modified gain callback parameters	KA
2.07	2/December/2016	Modified SetGr functions	KA
2.08	15/December/2016	Fixed issue in IQ compensation	KA
2.09	22/December/2016	Modification to AGC loop (no external API mods)	KA
2.10	11/April/2017	RSPII Refclk o/p stay on when device stop streaming	APC

Software Defined Radio API Release Notes

2.11	15/November/2017	Added support for RSP1A	APC
2.13	18/June/2018	Added support for RSPduo (single tuner operation)	APC
3.0	19/June/2018	Service/Daemon based API (RSPduo dual tuner support)	APC
3.01	24/August/2018	Updates for stream error handling	APC
3.02	14/March/2019	New AGC scheme, fixes to RSP1 & RSPduo control	APC
3.03	9/April/2019	Updated heartbeat & comms systems	APC
3.04	8/July/2019	Update for diversity and other performance improvements	APC
3.06	24/November/2019	Added RSPdx Support and extra error reporting	APC
3.07	8/June/2020	Added DisableHeartbeat, fixed RSP1A Bias-T & IQ comp.	APC
3.08	13/September/2021	Added valid element to DeviceT struct + bug fixes	APC
3.09	23/November/2021	New RSPdx band, bug fixes including start-up & low power mode resumption	APC
3.10	10/May/2022	User mode (WinUSB) driver + ARM64 support	APC
3.11	5/Sep/2022	Fixes to surprise removal and service start-up	APC
3.12	8/Nov/2022	Updates to fsChanged and grChanged flags	APC
3.13	10/Aug/2023	Internal	APC
3.14	26/Jan/2024	Added RSP1B Support	APC

Table of Contents

1 Summary 4

2 System Compatibility 4

3 Enhancements and Bug Fixes 4

 3.1 API Release 3.14..... 4

Legal Information 5

1 Summary

Release	V3.14
Installer Name	SDRplay_RSP_API-Windows-3.14.exe
Release Date	26/Jan/2024

2 System Compatibility

Supported Operating System	Windows 7 - 11 / 32 bit Windows 7 - 11 / 64 bit
Software Prerequisites	Hardware kernel mode driver (included) for Windows 7 + 8.1 WinUSB user mode driver (included) for Windows 10 + 11
Intended Hardware Platform	SDRplay RSP

3 Enhancements and Bug Fixes

This release incorporates the following enhancements and bug fixes:

Added RSP1B Support

3.1 API Release 3.14

1	Software Defined Radio API	API Release 3.14
---	----------------------------	------------------

For more information, contact: <https://www.sdrplay.com/support>

Legal Information

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

SDRplay modules use a Mirics chipset and software. The information supplied hereunder is provided to you by SDRplay under license from Mirics. Mirics hereby grants you a perpetual, worldwide, royalty free license to use the information herein for the purpose of designing software that utilizes SDRplay modules, under the following conditions:

There are no express or implied copyright licenses granted hereunder to design or fabricate any integrated circuits or integrated circuits based on the information in this document. Mirics reserves the right to make changes without further notice to any of its products. Mirics makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Mirics assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters that may be provided in Mirics data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters must be validated for each customer application by the buyer's technical experts. SDRplay and Mirics products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the Mirics product could create a situation where personal injury or death may occur. Should Buyer purchase or use SDRplay or Mirics products for any such unintended or unauthorized application, Buyer shall indemnify and hold both SDRplay and Mirics and their officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that either SDRplay or Mirics were negligent regarding the design or manufacture of the part. Mirics FlexiRF™, Mirics FlexiTV™ and Mirics™ are trademarks of Mirics.

SDRplay is the trading name of SDRplay Limited a company registered in England # 09035244.
Mirics is the trading name of Mirics Limited a company registered in England # 05046393