



The story of SDRplay

- British Company 7 years old
- Joint venture supported by UK chip company Mirics
- 7 employees
- Subcontract manufacturing in the UK
- Registered office in Alton, Hampshire, UK



What is an SDR (Software Defined Radio)?

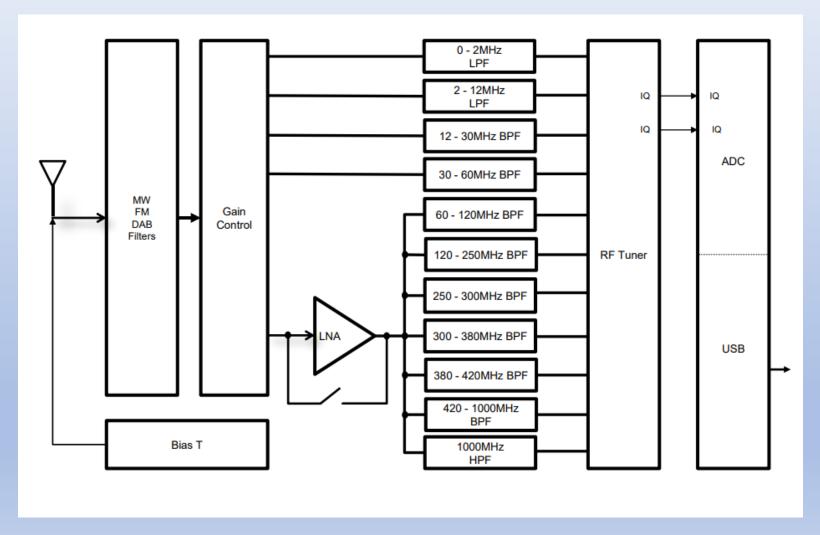
A radio communication system where components that have been traditionally implemented in hardware

(e.g. mixers, filters, amplifiers, modulators/demodulators, detectors, etc.)

are implemented by software on a PC or embedded system.

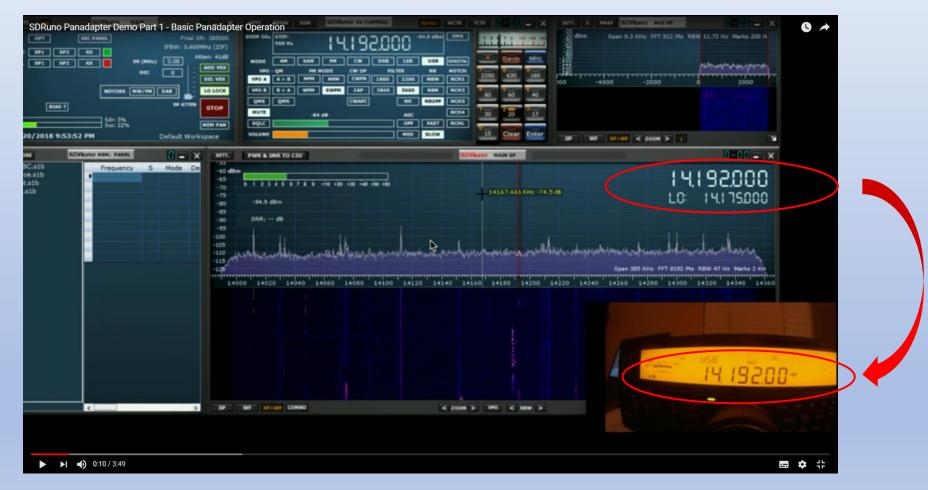


RSP1A Block Diagram





Visualize whole chunks of spectrum as a stand-alone receiver or as a panadapter

















RSP1A ~€140



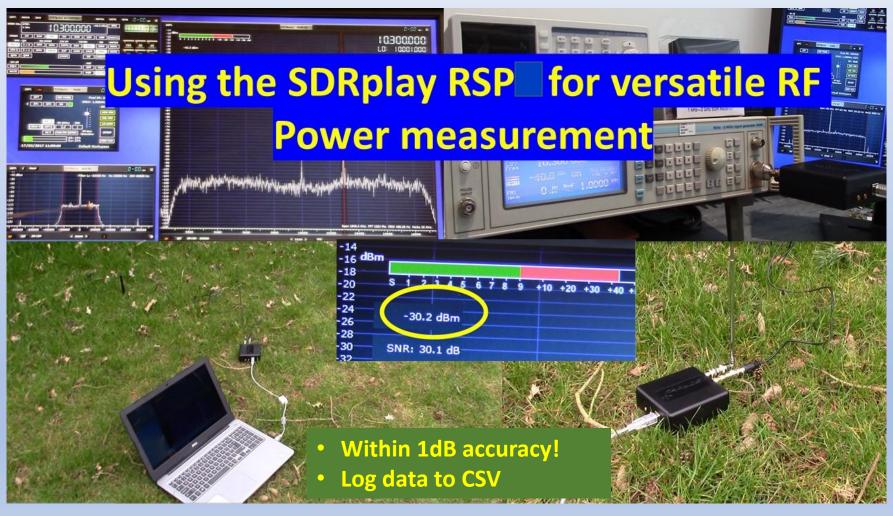


- Clean 1kHz 2GHz coverage with up to 10MHz spectrum visibility
- All round functionality with single antenna port
- Multiple front-end filters, broadcast band notch filters improvements
- Includes free SDRuno software for Windows
- Spectrum Analyser software
- GNU Radio source block
- Raspberry Pi SD card image
- All you need for a panadapter
- Perfect gift to attract lapsed hams and youngsters into the radio hobby



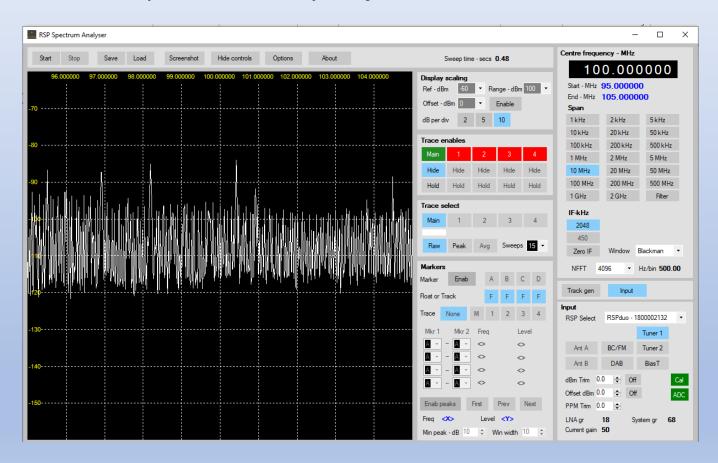
Doubles as a new piece of RF lab kit:

an RF Power meter – get one for work or play!





Spectrum Analyser function







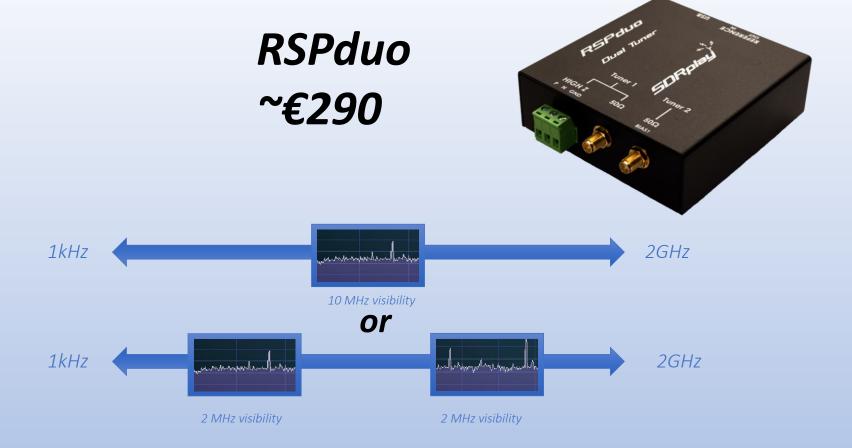




- Complete redesign of the popular RSP2/RSP2pro
- 1kHz 2GHz coverage with up to 10MHz spectrum visibility
- 3 software selectable antenna ports (2 x 50Ω SMA plus 50Ω BNC)
- Enhanced HF performance large signal handling vs RSP2
- Outstanding performance below 2MHz using HDR and additional filtering (hardware and software)
- External clock input for GPS accuracy
- Rugged black painted steel case







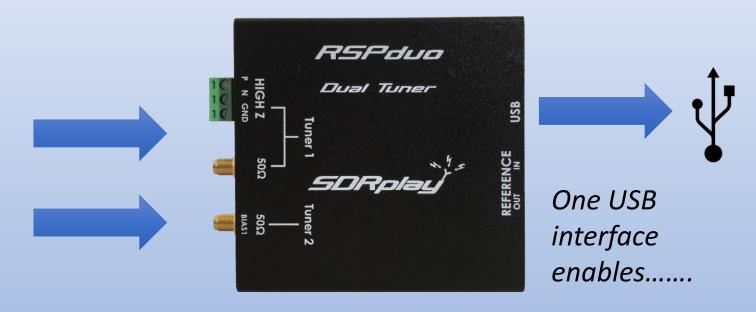
- 1kHz 2GHz coverage with up to 10MHz spectrum visibility or...
- 2 independent tuners giving 2MHz visibility anywhere from 1kHz to 2GHz
- Simultaneous processing from 2 antennas enables diversity & noise reduction applications
- 3 software selectable antenna ports (2 x 50Ω plus High Z)
- Perfect for true real-time antenna comparisons
- External clock input for GPS accuracy





RSPduo

RSPduo – 2 simultaneous tuners



Monitor widely spaced bands simultaneously
Diversity Demodulation: Spatial, Frequency and Polarisation:
Signal enhancement & Noise cancelling: subtracting noise from wanted+noise
Real time antenna comparisons

SDR Receivers



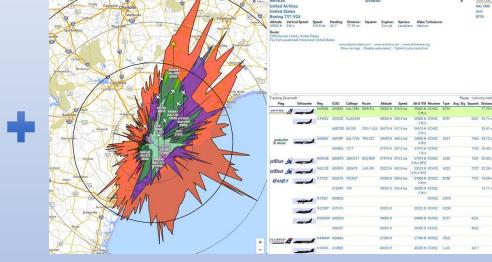
RSPduo & SDRuno - Monitoring 2 widely spaced bands, simultaneously





RSPduo – mix and match applications simultaneously





ATC

ADSB

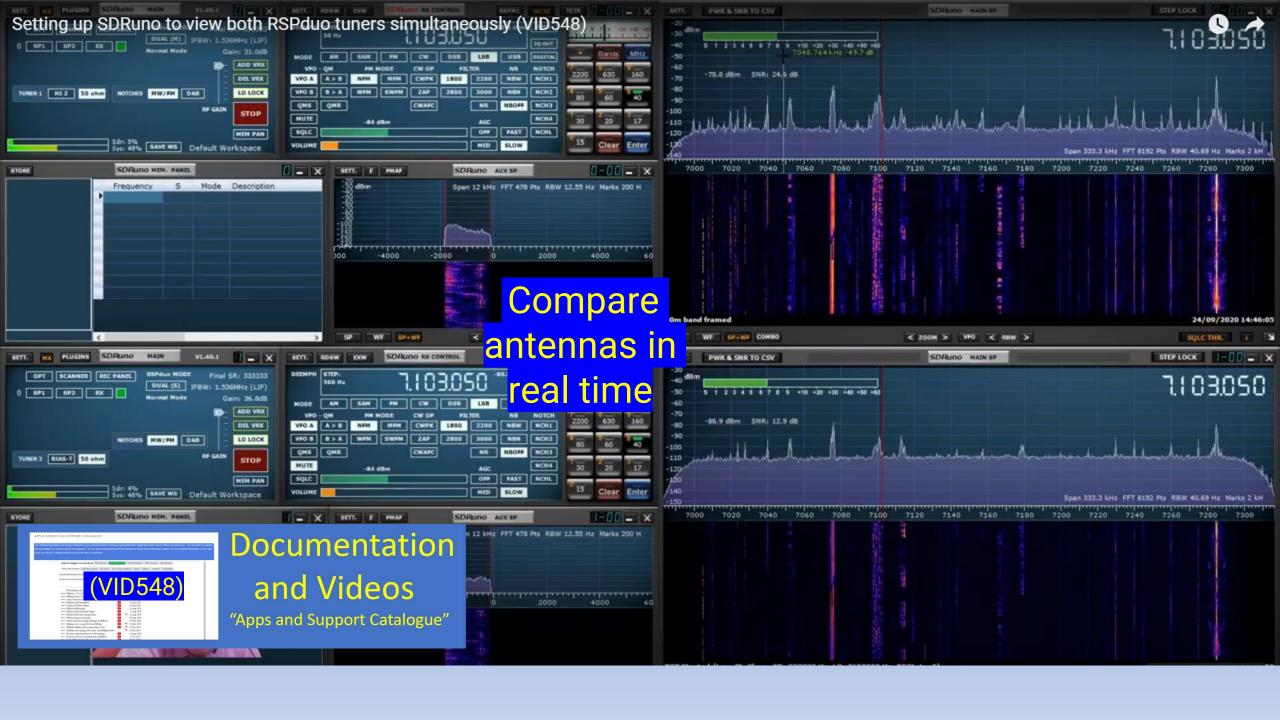
SDRuno plugin coming soon

SDR Receivers

SDRuno + RSPduo - Diversity Tuning



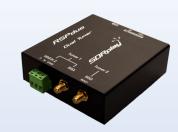
- RSPduo only
- MRC (Maximum Ratio Combination) for signal enhancement (Auto mode)
- Interference Rejection (Manual mode)





Comparison Chart







Key specifications and highlights	RSP1A	RSPdx	RSPduo
Continuous coverage from 1kHz to 2GHz	✓	✓	✓
Up to 10MHz visible bandwidth	✓	✓	✓
14-bit ADC silicon technology plus multiple high-performance input filters	✓	✓	✓
Software selectable AM/FM & DAB broadcast band notch filters	✓	✓	✓
4.7V Bias-T for powering external remote antenna amplifier	✓	✓	✓
Powers over the USB cable with a simple type B socket	✓	✓	✓
50Ω SMA antenna input(s) for 1kHz to 2GHz operation (software selectable)	1	2	2
Additional software selectable Hi-Z input for up to 30MHz operation			✓
Additional software selectable 50Ω BNC input for up to 200MHz operation		✓	
Additional LF/VLF filter for below 500kHz		✓	
24MHz Reference clock input (+ output on RSPduo)		✓	✓
Dual tuners enabling reception on 2 totally independent 2MHz ranges			✓
Dual tuners enabling diversity reception using SDRuno			✓
Robust and strong plastic case (with internal RF shielding layer)	✓		
Rugged black painted steel case		✓	✓
Overall performance below 2MHz for MW and LF	Good	Best	Good
Multiple simultaneous applications	Good	Good	Best
Performance in challenging fading conditions (*using diversity tuning)	Good	Good	Best*









SDRuno Roadmap

1.41

- Improved ini file support (backup/restore)
- Generic Scheduling Function
- •Ability to create and recall complete receiver profiles
- Save VFO for each VRX

1.42

- Remote operation
 - New TCP Server (cross-platform)
 - SDRuno client
- Start-up tips

1.43

- Memory Panel updates (if blank use current value)
 - RF Gain
 - IF Gain/AGC enable
 - Scanner Threshold
- Scanner updates
 - Lockouts in a separate file
 - Statistics logging
 - Use memory panel threshold
- Custom controls
 - SP2 Filter bandwidth
 - Up to max available SP2 bandwidth for RX mode
 - Band buttons
 - Variable band centre
 - Bandwidth from a selectable list

2.0

- •Cross Platform (Windows, MacOS, Linux) x86
- •Add Hamlib support for non-Windows platforms
- •GUI update ability to lock panels together



Not just for amateur radio.....

APPLICATIONS

Amateur

Shortwave radio listening

Broadcast DXing (AM/FM/TV)

Panadaptor

Aircraft (ADS-B and ATC)

Slow Scan TV

Multi-amateur band monitoring

WSPR & digital modes

Weather fax (HF and satellite)

Satellite monitoring

Geostationary environmental satellites

Trunked radio

Utility and emergency service monitoring

Industrial

Surveillance

Wireless microphone monitoring

RF surveying

IoT receiver chain

Signal logging

RFI/EMC detection

Broadcast integrity monitoring

Spectrum monitoring

Power measurement

Educational/Scientific

Teaching

Receiver design

Radio astronomy

Passive radar

Ionosonde

Spectrum analyser

Receiver for IoT sensor projects

Antenna research



SDRplay "Misc" page – news, reviews, blogs, educators, developers, non-English & more



Misc

Click Here



Need Product Info?



Want to purchase?

Click here



Need Software for your RSP? Click here



Need Help?

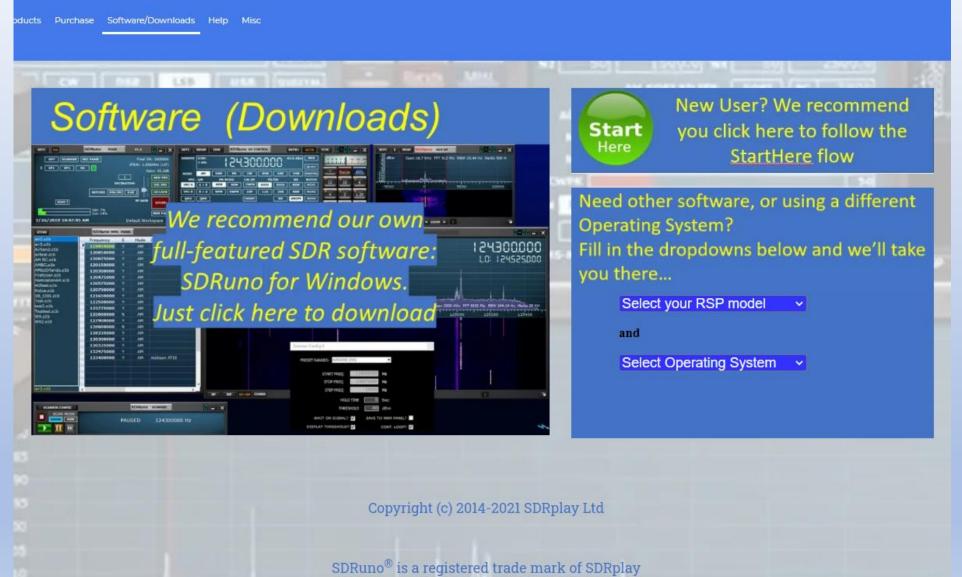


YouTube Channel



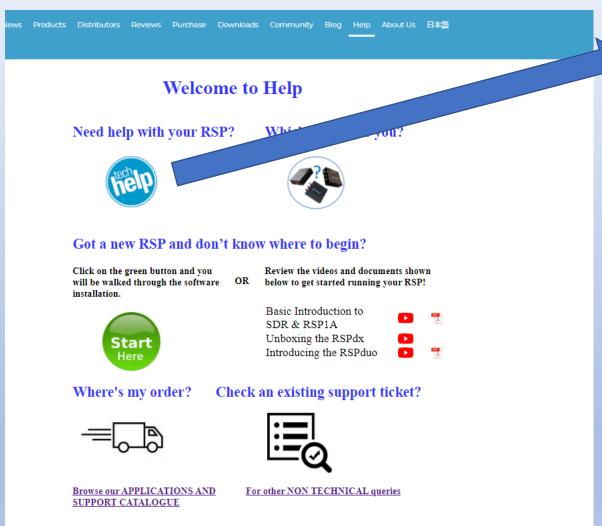


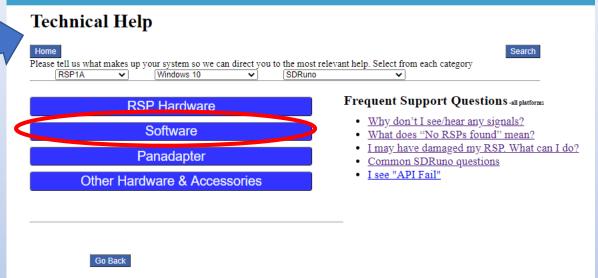






Interactive Technical Help including ticket system for one-to-one support

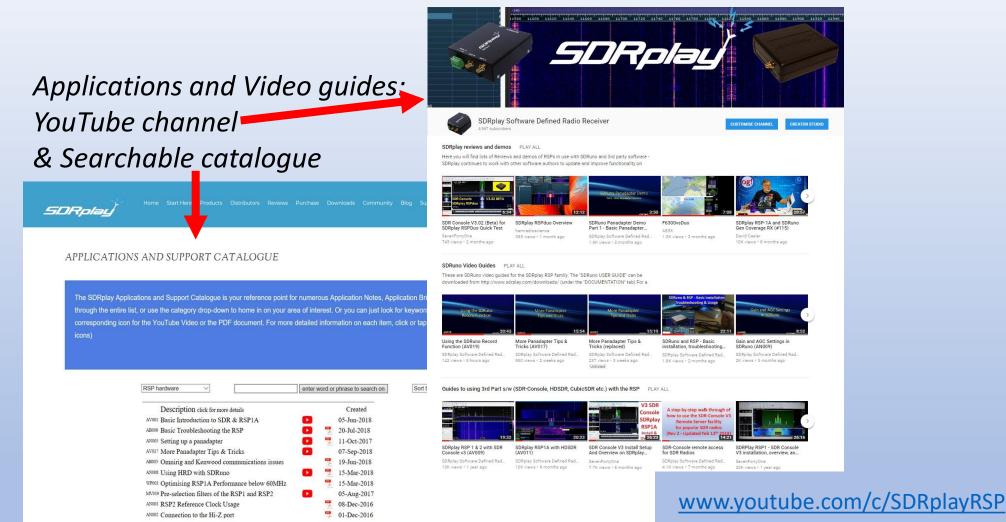






Please tell us what makes up your system so we can direct you to the most relevant RSP1A Windows 10 SDRuno	nt help. Select from each category
The current supported version of SDRuno is SDRuno 1.40.1	
If you do not have this version <u>please click here to download</u>	
If you are a newcomer and it seems like SDRuno isn't running or pi up any signals, <u>CLICK HERE</u> to check our "quick start" guide whice covers the four things that are the most likely causes of initial problems This list of common questions (and answers) about SDRuno can also be found he <u>Common SDRuno questions</u>	ch SDRuno FAQ Installation 🔼 ems.
Why is there both a regular version and an "EXTIO" version of SDRuno?	?
What are "LO" and "VFO"?	
I like SDRuno but I want to run on a different computer platform.	
What other enhancements are planned for SDRuno in the coming months	s?
Where is the SDRuno documentation?	
The tuning steps are too coarse or too fine. How do I change them?	
The scanner seems to work but it's not finding anything. What might be wro	ong?
Why does the spectrum noise floor seem to dip down at each end of the ran	ige?
SDRuno does not create a nice layout of panels on my screen. What can I	do?
Why can't I tune outside one of the preset (framed) "bands"?	
Why does the measured noise level go up as you reduce the RF gain control	rol?
Still need help? Click here to raise ticket	





www.sdrplay.com/apps-catalogue/

SDR Receivers

SDRplay

Community Support:

Facebook Group (16000+ members)

& SDRplay forums

SDRplay Users

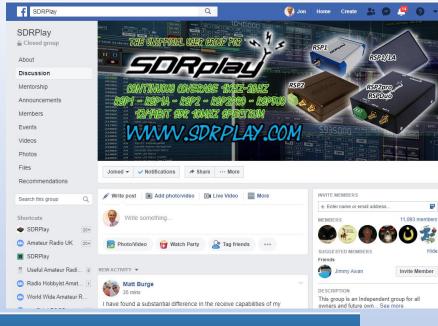
Forum

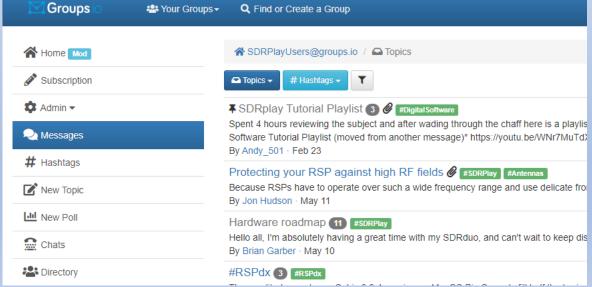
SDRPlay Independent Community Forum > Forums

Forum	Topics	Posts	
SDRplay News Announcements on SDRPlay news will be posted here by the Admin team	2	2	
General Discussions and suggestions for categories	14	67	10
SDRPlay Devices RSP1, RSP1a, RSP2, RSP Pro, RSPDuo related content	3	9	
SDRUno Information and questions on SDRUno	8	25	
SDR Software (RSP Compatible) Software that is compatible or can integrate with SDRplay Devices	4	13	
SDR Antennas Question or information on Antennas for use with SDRPlay devices	4	17	
S1b File Sharing Files for SDRUno	2	2	

sdrplayusers.net/forum

www.facebook.com/groups/sdrplay





SDRPlayUsers@groups.io



www.sdrplay.com/purchase



SDRplay and its fulfilment centres BUT please be aware that SO please be patient it IF we are unable to arrange a carrie

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Boriou Ipirou 78 Kolonos Athens 4400 Nyiregyhaza, Debreceni ut 125,

We will let you know if this happens

SDRplay

]	For delivery to	United Kingdom	
Product	Price ex VAT GBP £	Quantity		
Radio				
RSP1A	86.00	RSP1	A in stock	
RSPduo	199.95	RSPd	luo in stock	
RSPdx	160.00	RSPd	x in stock	
Shipped by Courier 7.00 A Shipped by Mail 5.40	7.00			
VAT GB	0	20.0 %		
Total	£ 0.00			





