

SunSDR2_{mini}

DUC/DDC HF/6M TRANSCEIVER

Applications:

- Radioamateur QRP transceiver
- Additional panadapter for classical transceivers
- Remote transceiver point
- Spectrum analyzer
- Work with external modems and third-party software

Advantages:

- Low cost
- Low weight
- Small size
- Comfortable in use
- Good parameters



Key Features:

- DUC/DDC Architecture
- ADC 14 bit 125 Mhz
- DAC 14 bit 125 MHZ
- Maximum output power 5W
- Quick hardware formed CW
- Two independent receiver channels
- I/Q stream up to 312 kHz
- Reception from 9 kHz to 55MHz
- Oversampling reception up to 800 MHz
- Wide spectrumscope up to 60 MHz
- Bandpass filters in receiver front end
- Onboard high quality 24 bit audio codec
- LAN interface for connection to PC
- External devices control
- CAT and VAC interfaces for connections to third-party software like loggers and digital modes software
- Reception of Broadcast FM stations
- Contest special functions
- Small size

PC system requirements:

- CPU Intel Core i3 1.6 GHz
- RAM 2 GB
- Ethernet adapter 10/100 BASE-T
- Video card, minimum resolution 1024x600, 128 MB, OpenGL 1.5 support and higher
- OS Windows XP or OS Windows 7 with the native drivers installed for all the devices
- CD-ROM for software installing

Price
800€

SunSDR2 mini Specification

Transmitter	
Output Power	5W
Frequency range	All Ham radio bands
DAC converter	14 bit 125 MSPS
Carrier Rejection in SSB mode	> 90 dB
I/Q Image Rejection	> 90 dB
IMD3	30 dB
Dynamic microphone impedance	600 Ohm (Yaesu MH-31 compatible)
Receiver	
Modes	AM/SAM/NFM/WFM/LSB/USB/DSB/CW
Frequency Range	10 KHz - 55 MHz
Oversampling Frequency Range	10 KHz - 800 MHz
Output IQ Sample Rate	39, 78, 156, 312 kHz
Independed receiver channels	2
Blocking Dynamic Range	110 dB
IMD3 Dynamic Range	90 dB
I/Q Image Rejection	>110dB
ADC converter	125 Msps, 14 bit
Attenuators	-30, -20, -10, 0, +10 dB
10 MHz reference input	Present
Internal TCXO stability	+/- 0.5 ppm
LAN interface	100 Mbps
LAN protocols	ARP, ICMP, UDP, DHCP Client/Server
Onboard High Quality Audio Codec	24 bit
External Radio Control:	8 programmable transistor switches
Power supply	+13.8V, 3A
Dimensions	140x100x30

SunSDR2 mini Blok diagram

