



Software Defined Radio Comparisons



	SDR-IP	NETSDR	SDR-X2	SDR-14	SDR-IQ
Frequency Coverage	0.010 to 35 MHz	0.010 to 35 MHz, 48-54,88-108,128-152 MHz	0.010 to 35 MHz, 48-54,88-108,128-152 MHz	0.05 to 30 MHz	0.0005 to 30 MHz
Direct ADC Input	No	No	Yes, 0.01 - 600 MHz *40dBm IP3	Yes 0.05 - 250 MHz	No
Number of Channels	1	1	2	1	1
Analog to Digital Converter	16bit	16 bit	16 bit	14 bit	14 bit
ADC Dither / Randomization	Dither / Randomization	Dither / Randomization	Dither / Randomization	No	No
Input IP3	+32 dBm	+32 dBm	+15dBm to +40dBm based on Band	+15dBm	+15dBm
Blocking DR	126 dB	126 dB	126 dB	90 dB	90 dB
Oscillator Phase Noise	-158 dBc/Hz @ 10KHz (-169 dBc/Hz optional)	-158 dBc/Hz @ 10KHz (-169 dBc/Hz optional)	-160 dBc/Hz @ 10KHz (-169 dBc/Hz optional)	-155 dBc @ 10 KHz	-155 dBc @ 10 KHz
Input Attenuator	(0-30dB)	(0-30dB)	TBD	(0-30dB)	(0-30dB)
10 MHz Reference Lock Input	Yes 0.5Vpp	Yes 0.5Vpp	Yes 0.5Vpp	No	No
Max Display BW / FFT Points	40 MHz 65536 points (262144 option)	40 MHz 65536 points	40 MHz 65536 points	30 MHz 262144 points	0.196 MHz 2097152 points
Max Resolution Bandwidth	15 millihertz	6 millihertz	6 millihertz	4 millihertz	4 millihertz
External Trigger	Optional - Input / Output	Optional - Input	Optional - Input / Output	Optional - Input	No
PC Interface	Ethernet (TCP/IP)	Ethernet (TCP/IP)	Ethernet (TCP/IP)	USB	USB
External Radio Control	RS-232	RS-232	RS-232	Aux Serial	RS-232
Ethernet Configuration	LCD / Front Panel / DHCP	USB Terminal / Software / DHCP	USB Terminal / Software / DHCP	N/A	N/A
Max Output BW / Sample Rate	1800 KHz / 2000 KHz	1300 KHz / 1540 KHz	900 KHz / 1000 KHz x 2 Channels	190 KHz / 196 KHz	190 KHz / 196 KHz
Modes	AM,SAM,ECSS,LSB,USB,FMN,FMW,DRM	AM,SAM,ECSS,LSB,USB,FMN,FMW,DRM	AM,SAM,ECSS,LSB,USB,FMN,FMW,DRM	AM,SAM,ECSS,LSB,USB,FMN,FMW,DRM	AM,SAM,ECSS,LSB,USB,FMN,FMW,DRM
Computer Drivers	No Drivers required (Mac OS, Linux, PC)	No Drivers required (Mac OS, Linux, PC)	No Drivers required (Mac OS, Linux, PC)	USB Driver	USB Driver
Software Included	SpectraVue , SDR-Radio	SpectraVue , SDR-Radio	SpectraVue , SDR-Radio	SpectraVue , SDR-Radio	SpectraVue , SDR-Radio
Other Software	Linrad / MAP65-IQ	Linrad / MAP65-IQ	Linrad / MAP65	Linrad / MAP65-IQ / Winrad / CW Skimmer	Linrad / MAP65-IQ / Winrad / CW Skimmer
Multiple FPGA Configurations	3	3	1 TBD	0	0
Firmware / FPGA Flashing	Yes , RS-232 or Remote over Ethernet	Yes, RS-232 or Remote over Ethernet	Yes, RS-232 or Remote over Ethernet	USB	USB
Direct Down Converter	Xilinx S3E	Xilinx S3E	Xilinx S6	Analog Devices 6620	Analog Devices 6620
FPGA Upgradeable	Yes.	No	No	N/A	N/A
Power Requirements	5 Volts 1.5 Amp - Overvoltage Protected	5 Volts 1.5 Amp (2.5 Amp future) OVP	5 Volts 2.0 Amp - Overvoltage Protected	7-12 Volts 0.5 Amp Power Supply	USB Computer Powered
Operating Temperature Range	0-40 C	0-40 C	0-40 C	0-40 C	0-40 C
Certification	CE, FCC	CE, FCC at release	CE, FCC at release	FCC	CE, FCC
Price	\$2999 USD	< \$1400 USD TBA	TBA	\$1099 USD	\$499 USD
Availability	NOW	Q4 2010	Q1 2011	NOW	NOW

* Specifications Subject to Change