

QS1R RevD Receiver Specifications:

Frequency Coverage:	10 kHz – 62 MHz
Modes:	LSB, USB, CW, AM, SAM, FMN, FMW
Sensitivity:	0.56 uV SSB (S+N)/N= 10 dB
Selectivity:	> 120 dB
Image Rejection:	90 dB Input IP3 >42 dBm
Dynamic Range:	101 dB (SSB, 2.4 kHz BW) 104 dB (CW, 500 Hz BW)
SFDR:	112 dB
BDR:	126 dB (CW, 500 Hz BW)
MDS:	-121 dBm (500 Hz BW)
Input ADC Clipping Level:	+9 dBm (8 mW)
ADC:	16 bit, 125 MSPS
FPGA:	Altera Cyclone II EP3C25
Interface:	USB 2.0 High Speed (typ. 32 MB/S Max)
Sampling Rates (kSPS):	25, 50, 125, 250, 500, 625, 1250, 1562, 2500
Output Bandwidth (kHz):	20, 40, 100, 200, 400, 500, 1000, 1250, 2000
Output Signal:	32 bit/sample I-Q pair
Power Supply :	+5 to +6 Volts @ 1000 mA typ.
Cabinet:	Anodized Aluminum 103 x 53 x 160 mm (W x H x L)
Operating Temperature:	0 – 40 C
Frequency Accuracy:	+/-1 PPM after calibration