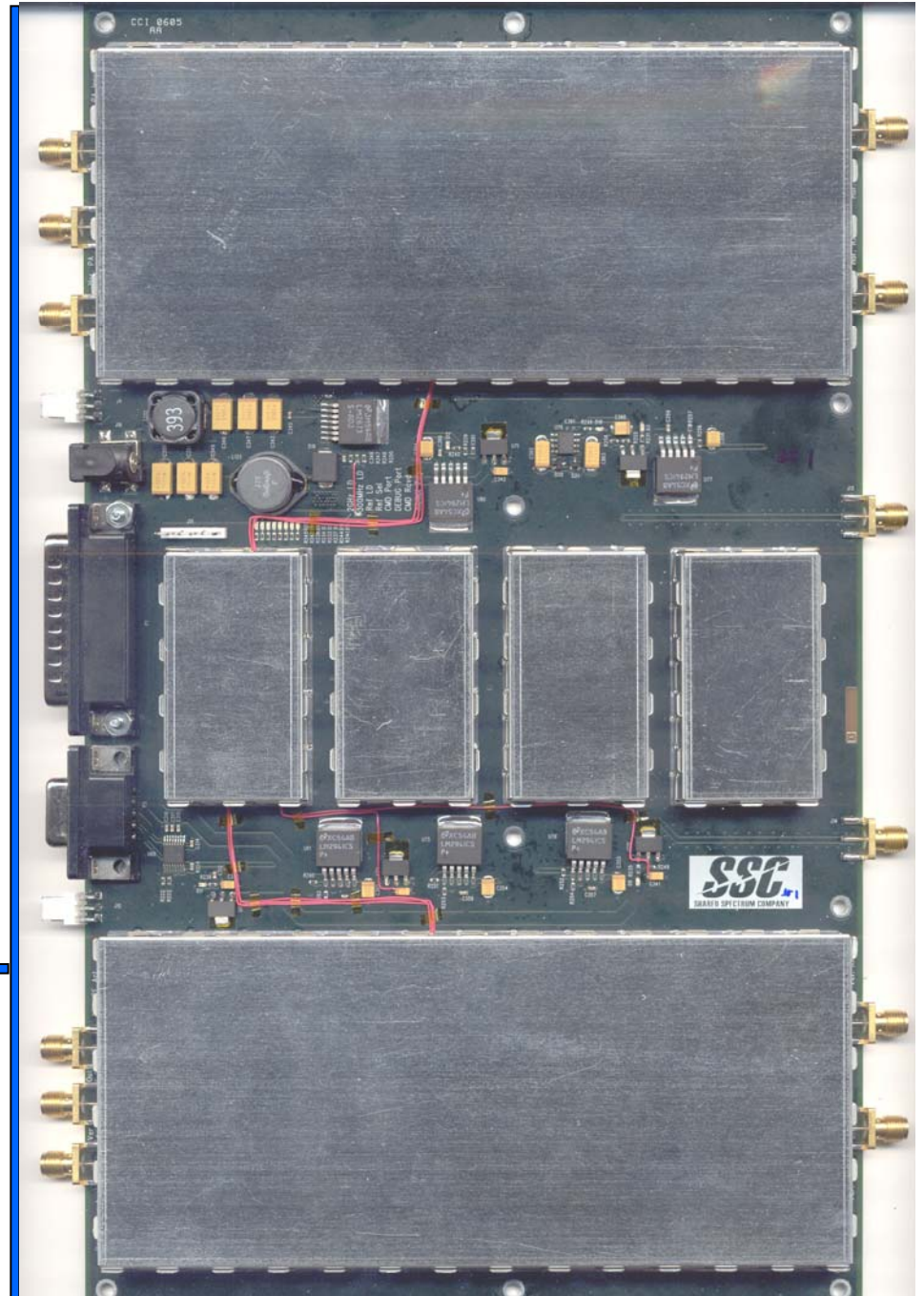


# Dual Channel Transceiver SSC FDR-002

The FDR-002 Transceiver is a half duplex, TDMA transceiver that operates from 2.35 GHz to 2.50 GHz (WCS, DARS, Telemetry, and ISM bands). Its enables rapid development and prototyping of modems, diversity systems and antenna polarization, MIMO and other systems.

This low-power transceiver runs off a single +12V supply with an available AC/DC converter for AC operation. The transceiver is available with both serial RS-232 or parallel high speed control. The power amplifier is available as an external board with heat sink for thermal dissipation.

- Dual, coherent, phase balanced TX and RX channels
- Half-duplex, TDMA transceiver
- 2350-2500 MHz RF
- 20 MHz IF, 10 MHz BW
- 2 W linear transmit power
- Receive Automatic Gain Control (AGC) (62 dB in 0.5 dB steps)
- Transmit Automatic Level Control (ALC) (32 dB in 0.5 dB steps)
- RS-232 or Parallel control



*For Further Information Contact:*

## Shared Spectrum Company

1595 Spring Hill Road, Suite 110

Vienna, VA 22182

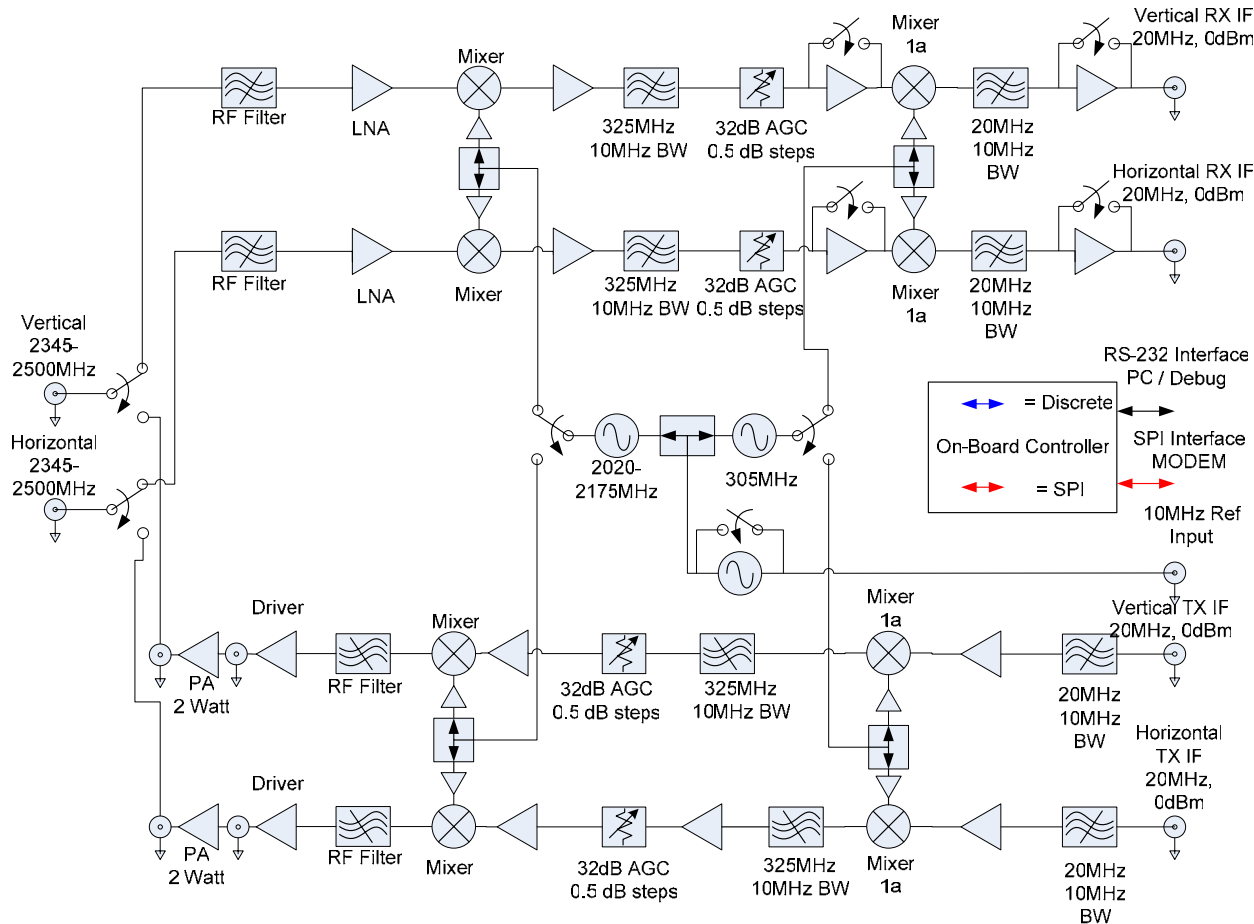
(703) 761-2818 x103

[Sales@shedspectrum.com](mailto:Sales@shedspectrum.com)

[www.shedspectrum.com](http://www.shedspectrum.com)



# Dual Channel Transceiver SSC FDR-002



<b>RF Frequency:</b>	2350-2500 MHz
<b>IF Frequency:</b>	20 MHz
<b>Channel BW:</b>	10 MHz
<b>Frequency Ref:</b>	10MHz Ext. 40MHz, Int
<b>Receiver:</b>	
Noise Figure:	5.5 dB
Input IP3:	0 dBm
AGC Range:	62 dB
AGC Step Size:	0.5 dB
<b>Transmitter:</b>	
TX Power (@1dB Comp.):	
w/o PA	100 mW (20 dBm)
w/ PA	2 W (33 dBm)
ALC Range:	31 dB
ALC Step Size:	0.5 dB
<b>Power:</b>	
Receive (2 channel):	1 Watt
Transmit (w/o PA)	1.5 Watt
PA (per channel)	0.5 Watt
<b>Size:</b>	
	7" x 11"
<b>Connections:</b>	
Serial Control	D-Sub 25
Parallel Control	D-Sub 9
RF Connections	SMA

- **Options:**
  - 12 V AC/DC converter for AC operation
  - 1 Watt power amp (replaces 2 W power amp)
  - Custom control interface as specified

