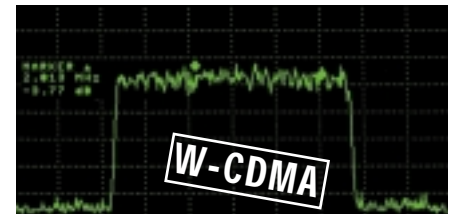


# Zebra II™

## IS-95 16-CHANNEL CDMA SOURCE



### WAVEFORM OUTPUTS INCLUDE:



The 16-channel Zebra II™ is an excellent baseband CDMA source to test power amplifiers as per IS-97. Sixteen data encoded CDMA channels are digitally combined with a user selectable mixing ratio. The combined output is band-limited with digital and analog filters and output as IS-95 baseband I and Q signals with > -60 dB of filtering for single carrier and > -50 dB for multicarrier. These can then modulate an external RF generator to simulate an IS-95 CDMA base station with up to 16 selectable Walsh channels.

### APPLICATIONS

- Testing of power amps with CDMA signals
- IS-95 CDMA forward channel simulation (No network protocols)
- Development of G3 standard products
- ACPR measurements
- Realistic characterization of power amplifiers as per IS-97 specifications

### FEATURES

- Multiple carriers - up to 7 adjacent carriers
- I and Q signals can be combined with external signal (such as AGWN)
- I and Q outputs drives 50  $\Omega$
- Selectable Walsh (0 to 63)
- Selectable amplitude
- External even second pulse input
- Selectable Data - all 0's, all 1's, PRBS
- Selectable waveform - up to 8 waveforms
- Auto selection of external clock source
- PC interface to generate waveforms



Zebra Controller™ software displays Zebra II waveform outputs in bar graph form for comparative analysis.

The Zebra II is just one of many exceptional design solutions from Berkeley Varitronics.

Call us today for more information:  
**(732) 548-3737** / Fax: (732) 548-3404  
Internet: [www.bvsystems.com](http://www.bvsystems.com)  
E-mail: [info@bvsystems.com](mailto:info@bvsystems.com)



### SPECIFICATIONS

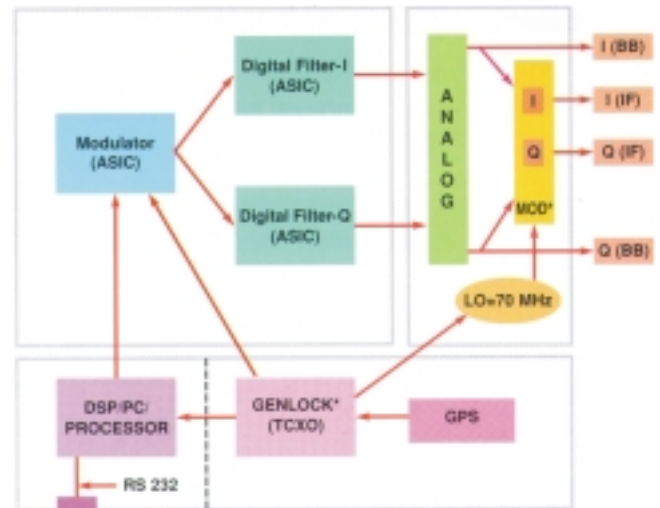
- Chip rate: Standard 1.2288 Mbps (W-CDMA rates also available)
- Pilot: IS-95 forward link - Multiple carrier up to 7 adjacent carriers
- 16 Orthogonal Channel: Selectable Walsh (0-63) with PRBS data
- Clock stability: TCXO 2.5 PPM from 10°C to 50°C
- Outputs: 1V, 50 Ω (I and Q)

### POWER

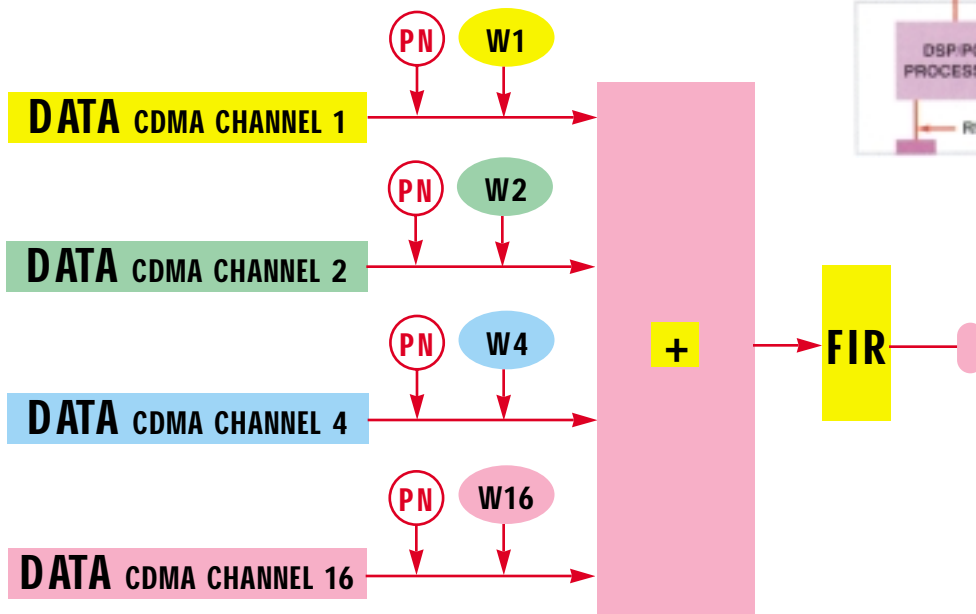
- AC power: 110/220, 50/60 Hz, 1.0 A

### OPTIONS

- 16 additional IS-95 CDMA code channels
- GPS with phase locking (optional)
- Rubidium clock source, stability  $1.0 \times 10^{-10}$  ppm
- Modulated IF output at 70 MHz
- Custom data input



\*Optional



Zebra Controller™ software allows for pre-defined or custom waveforms to be stored and then loaded into the Zebra II.