SD-ERNST— Software Defined Extended RF

Networked Signal Transmitter PN: AE102491-001



Aeronix's SD-ERNST is a high performance digital modulation signal generator. It is capable of covering 4 simultaneous independent frequency bands. The SD-ERNST is a processor FPGA based system designed to evolve to meet its users needs and enable unique customer specific modifications. Common applications include interference testing, antenna testing, and radio receiver isolation testing. Each of the 4 channels are capable of independent modulation, independent frequency selection, independent selectable output power levels, and independent associated status. The system is for use with TDMA, FDMA, and CDMA waveforms.



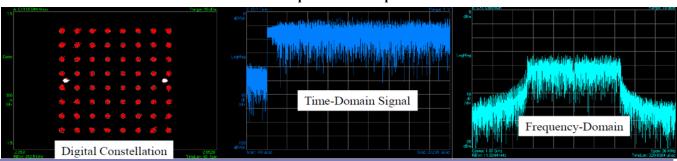
Software Reprogrammable Signal Transmitter

- Power Control
- · 4 Independent Channels
- Networked based Configuration, Control, and Status
- · Fully Reprogrammable Signal Generation
- Fine grained Frequency Resolution
- Modular Frequency Band Support
- Software Download Function for easy upgrades

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Example TDMA Outputs



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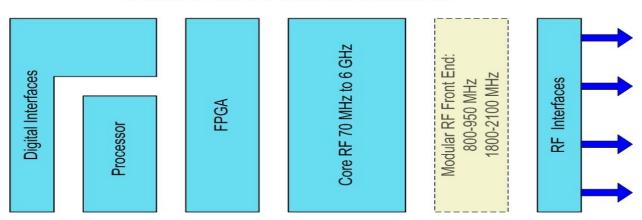
Radio Specifications	
Modular RF Front End	800—950 MHz, 1900-2100 MHz (current)
RF Tuning	Selectable to 10 Hz granularity
Base Frequencies Supported	70 MHz—6 GHz
Tunable RF Band- widths	< 200 kHz to 56 MHz
RF Output Power	0—30 dBm
Tx EVM	-38 dB
Tx Noise	<= -157 dBm/Hz at 800 MHz
Waveforms	Software Reprogrammable
DACs	12 bit

Mechanical		
Chassis	1U, 18 inch depth	
Connector Location	Rear Panel	
Cooling	Forced Air	

Interfaces		
RF	4 Independent channels with TNC connectors	
Network	10/100 Ethernet, RJ45	
Timing	1PPS / 10 MHz Input	
Power	Universal, supports both 110VAC and 220VAC	
On/Off Switch/ LED	Integrated. Turns power on and off, indicates power on or off	
Management	SNMP v2/v3	

Physical Characteristics	
Weight	2 lbs 9 ounces
Power	~40 Watts

Modular Software Defined Architecture





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