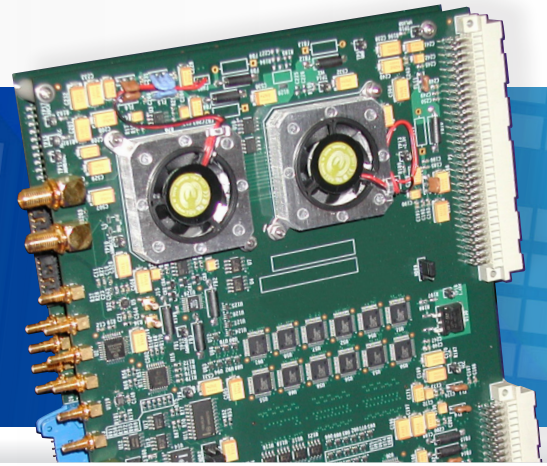


Wideband Digital RF Memory (DRFM)

10-Bit 1 GHz Digital RF Memory

- 1 GHz IBW (instantaneous bandwidth) with real-time digital modulation
- For Doppler, Amplitude, Phase and Multi-Scatterer simulation
- 10-Bit A/D and 12-Bit D/A converters
- -50 dBc Spurious
- Digital modulation complex targets



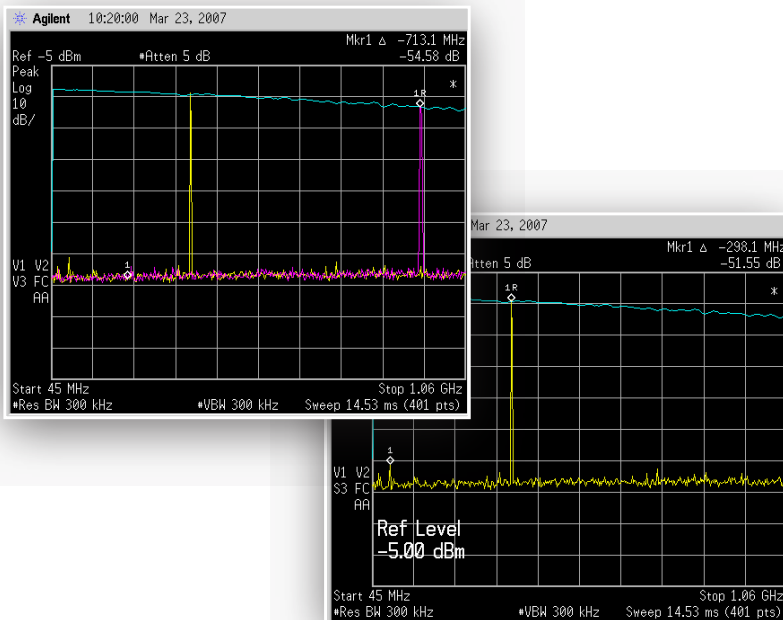
Mercury Systems is pleased to introduce the latest wideband Digital RF Memory at the heart of our laboratory simulation products. This 10-bit DRFM offers an unprecedented 1 GHz of instantaneous bandwidth in a 2-slot VME bus footprint.

This new DRFM kernel also includes digital data manipulation for target effect simulation and a 12-bit D/A converter for enhanced resolution and linearity.

Applications

- High-fidelity signal delay
- RF capture/analysis/generation
- Complex target simulation
- ECM technique development

Outstanding spurious performance across the full bandwidth



Specifications

Parameter	Description
Frequency coverage	Base band or customer-defined IF or RF frequency
Instantaneous BW	Up to 1 GHz
Spurious	<-50 dBc typical
Range delay	<120 ns to 7.5 ms (standard)
Delay resolution	<0.5 nanosecond
Pulse width	<20 ns to CW
Pulse repetition frequency (PRF)	<100 Hz to >5 MHz, CW
Doppler offset	+/-2 MHz (standard)
Doppler resolution	<0.05 Hz (standard)

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