

Waveform Recording



With ever-increasing performance features, PC workstations and server-class computer systems can serve as affordable, real-time recording systems. The latest COTS computer components and best-of-class waveform digitizers stream data continuously to disk storage systems without any break in the analog record, and for a fraction of the cost of proprietary recording systems.

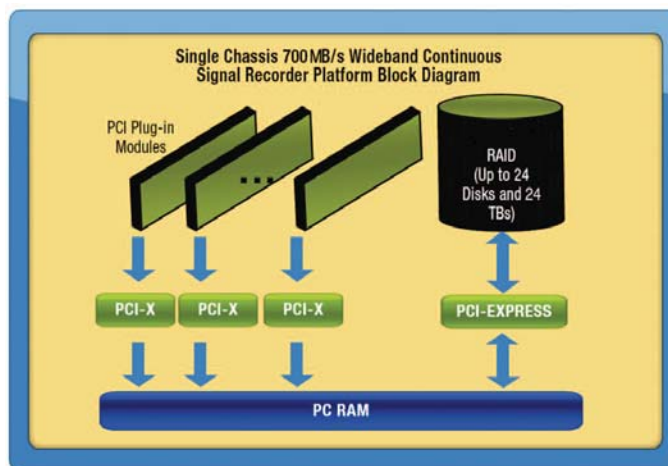
In addition to recording at high rates, signal data can also be processed at very high rates, effectively converting the PC into a signal acquisition, real-time processor and recorder solution. By integrating DAC modules with buffering techniques similar to those engineered on the DAQ modules, digital data can be streamed direct from disk storage at the same high rates for continuous playback capabilities.

Key Features

- 250 MB/s, 350 MB/s, 500 MB/s, 700 MB/s & 1 GB/s Recording Rate Options
- Up to 32TB of Integrated Storage
- Rates and Capacity are Scalable
- Multiple Digitizing Channels
- 8-bit, 14-bit & 16-bit Resolution Options

The DR700 signal recording system was created for developers of advanced SIGINT, radar and medical imaging applications. These systems continuously record up to 700 MegaSamples per second through the PC to disk storage without any break in the analog record.

Multiple data acquisition boards can be integrated within the systems to create a synchronized, multi-channel acquisition system with accommodations for large-bandwidth and high-resolution applications, along with an extremely large memory capacity.



Waveform Recording (cont.)

DR250 System Configurations

Max. Sampling Rate	A/D Resolution	Max. # of Channels	Real-Time Processing	Real-Time Playback	RAID Size (TB)
250 MSPC	8-bit	1	Yes	Yes	4.0 to 32.0
100 MSPC	11-bit	1	Yes	Yes	4.0 to 32.0
100 MSPC	8-bit	2	Yes	Yes	4.0 to 32.0
80 MSPC	16-bit	1	Yes	Yes	4.0 to 32.0
62.5 MSPC	14-bit	2	Yes	Yes	4.0 to 32.0
62.5 MSPC	8-bit	4	Yes	Yes	4.0 to 32.0

DR350 System Configurations

Max. Sampling Rate	A/D Resolution	Max. # of Channels	Real-Time Processing	Real-Time Playbacks	RAID Size (TB)
350 MSPC	8-bit	1	Yes	Yes	4.0 to 32.0
160 MSPC	16-bit	1	Yes	Yes	4.0 to 32.0
100 MSPC	8-bit	3	Yes	Yes	4.0 to 32.0
80 MSPC	16-bit	2	Yes	Yes	4.0 to 32.0
62.5 MSPC	8-bit	5	No	No	4.0 to 32.0

DR500 System Configurations

Max. Sampling Rate	A/D Resolution	Max. # of Channels	Real-Time Processing	Real-Time Playback	RAID Size (TB)
500 MSPC	8-bit	1	Yes	Yes	6.0 to 32.0
250 MSPC	8-bit	2	Yes	Yes	6.0 to 32.0
200 MSPC	14-bit	1	Yes	Yes	6.0 to 32.0
100 MSPC	14-bit	2	Yes	Yes	6.0 to 32.0
100 MSPC	8-bit	4	Yes	Yes	6.0 to 32.0
80 MSPC	16-bit	3	Yes	No	6.0 to 32.0
62.5 MSPC	14-bit	4	Yes	Yes	6.0 to 32.0

DR700 System Configurations

Max. Sampling Rate	A/D Resolution	Max. # of Channels	Real-Time Processing	Real-Time Playback	RAID Size (TB)
350 MSPC	8-bit	2	Yes	Yes	12.0 to 32.0
200 MSPC	8-bit	3	No	No	12.0 to 32.0
160 MSPC	16-bit	2	Yes	Yes	12.0 to 32.0
100 MSPC	14-bit	3	No	No	12.0 to 32.0
80 MSPC	16-bit	4	Yes	Yes	12.0 to 32.0

DR1000 System Configurations

Max. Sampling Rate	A/D Resolution	Max. # of Channels	Real-Time Processing	Real-Time Playback	RAID Size (TB)
160 MSPC	16-bit	3	Yes	No	12.0 to 32.0
80 MSPC	16-bit	6	Yes	No	12.0 to 32.0