

R Series Rack Mount Streaming Data Recorder



Big River™ R340



Big River™ R340



Big River™ R440



Big River™ R540

- **StreamStor® high speed recording and playback technology**
- **Available interfaces: FPDP, FPDP2, Serial FPDP, LVDS, Camera Link, PCI**
- **Multiple terabytes of data storage capacity ranging from 2 TB to 24 TB**
- **Redundant power supplies for built-in protection against a single power supply failure**
- **Xeon Server with 2 GB of RAM**
- **StreamStor® Application Program Interface (API) for integration of StreamStor® Storage Controllers**
- **Expansion PCI slots for optional third-party I/O boards**
- **Scalable SATA storage**

The Big River™ R Series Digital Recording Systems are configured to provide clients with StreamStor® high-speed recording and playback technology that is already built into a heavy-duty industrial 19" rack-mount chassis that includes a PCI backplane for Commercial Off The Shelf (COTS) component flexibility, a set of individually removable hard disk drives for data storage and an onboard Xeon Server that can be used to handle command and control as well as data manipulation. Standard Big River™ R Series recording chassis configurations can provide clients with 8, 12, 16 or 24 individually removable hard disk drives for multiple terabytes of data storage capacity. Other non-standard Big River™ R Series recording chassis configurations can be provided if needed.

Big River R Series Digital Recording Systems can be used to support a variety of data streaming applications such as:

- Digital Signal Processing (DSP)
- High speed data acquisition
- Radar and sonar
- Medical imaging
- Telemetry
- Satellite download

R Series Rack Mount Streaming Data Recorder

Big River™ R Series Digital Recording System Specifications

	R340 with 8 Drives	R340 with 12 Drives	R440 with 16 Drives	R540 with 24 Drives
StreamStor® disk controller card	Amazon	Amazon	Amazon	Amazon
Total number of StreamStor® disk controller cards inside the recording chassis	1	1	1	2
Maximum sustainable performance (MB/s)	280 *	400 *	500 *	800* **
Capacity (max)	8 TB	12 TB	16 TB	24 TB***
Duration at max performance	7.5 Hrs	8 Hrs	8.5 Hrs	8 Hrs
Available interface(s)	PCI, FPDP, FPDP II, Serial FPDP, LVDS, Camera Link	PCI, FPDP, FPDP II, Serial FPDP, LVDS, Camera Link	PCI, FPDP, FPDP II, Serial FPDP, LVDS, Camera Link	PCI, FPDP, FPDP II, Serial FPDP, LVDS, Camera Link

Hardware Configurations

Enclosure	3U rack mount	3U rack mount	4U rack mount	5U rack mount
Drive bays	8 bays	12 bays	16 bays	24 bays
System drive	250 GB	250 GB	250 GB	250 GB
Motherboard/CPU or ATX backplane	Xeon Server	Xeon Server	Xeon Server	Xeon Server
CD/DVD drive	Yes	Yes	Yes	Yes
Network	Dual Gb Ethernet	Dual Gb Ethernet	Dual Gb Ethernet	Dual Gb Ethernet
OS	Windows / Linux	Windows / Linux	Windows / Linux	Windows / Linux
Power supply	Redundant 650W	Redundant 650W	Redundant 650W	Redundant 1350W

Options

Long distance recording (fiber)	Optional	Optional	Optional	Optional
COTS digital I/O, DSP or A/D data acquisition output board(s)	Optional	Optional	Optional	Optional
Rugged or solid state drives	Optional	Optional	Optional	Optional
Expansion slots	PCI, PCI Express	PCI, PCI Express	PCI, PCI Express	PCI, PCI Express

* The maximum sustainable performance rate for each Big River™ R Series Digital Recording System is dependent upon the interface used for recording or playing back data.

** The 800 MB/s data rate in the Big River™ R540 Digital Recording System is achieved by splitting the 800 MB/s aggregate data rate between two StreamStor® Amazon Disk Controller Cards, where each Amazon is recording data at 400 MB/s.

*** The 24 TB of data storage capacity in the Big River™ R540 Digital Recording System is split between two StreamStor® Amazon Disk Controller Cards so that each Amazon is physically attached to 12 TB of data storage capacity.

Warranty

Conduant hardware products are backed by a limited one year warranty. All software includes a 90 day warranty. Maintenance and priority support is available on a yearly subscription basis. Please contact your Conduant sales representative for more details.

Customer Support

Customer support is provided through a comprehensive web portal at www.conduant.com/support. Private logins and trouble ticket management are provided along with technical downloads, knowledge base and other support tools.

Please contact your Conduant sales representative for more details about the Big River™ R Series Digital Recording Systems.