



Shown with optional rack-mount console (keyboard/monitor unit)

Description

WRAP 10G is a powerful, flexible turnkey computer system for clear-bit recording and playback of up to 10 Gb/s of data in real time. It works with virtually all EDT main and mezzanine board pairs.

Depending on board selection, the system can support data in optical, electrical, analog, digital video, and time code formats of virtually all types.

The system consists of a 3U EDT computer with 16 qualified and tested disk drives to provide 16 terabytes (TB) of storage for greatly extended recording times. It comes with EDT's WRAPSODY software, which includes built-in GUI, drivers, application code, and library and software for the record/playback server.

The WRAP 10G supports remote operation, and it uses commercial off-the-shelf (COTS) components to allow field upgrades as technology evolves.

Optional accessories include a 1U rack-mount console (keyboard/monitor unit) and WRAP Packs of sixteen additional disk drives each.

Features

- Computer system for clear-bit recording and playback of data in real time
- Works with EDT board pairs (main plus mezzanine); custom interfaces available
- Data formats: Virtually all types of time code, optical, electrical, analog radio, and digital video data, through the appropriate EDT boards
- Data rates: Up to 10 Gb/s, depending on boards selected and other variables
- Storage: 16 TB total (raw data) on sixteen removable front-panel disk drives, with no compression loss and no time inconsistencies
- Memory: 4 GB or optional 8, 16, or 32 GB on computer
- Processors: Intel Xeon (one or optional two)
- WRAPSODY software with built-in GUI, drivers, and command-line utilities
- Optional accessories:
 - 1U rack-mount console (keyboard/monitor unit)
 - WRAP Packs of sixteen additional disk drives each

Applications

- High-speed recording and playback
- Telecom testing
- Simulation

Specifications

Product Type	WRAP 10G is a computer system that records and plays back up to 10 Gb/s of data; it works with virtually any EDT board pair.			
Processors	Intel Xeon	One or optional two		
Memory	On computer	4 GB or optional 8, 16, or 32 GB		
Storage	Sixteen disk drives for total storage of 16 TB			
Data Rates	Up to 10 Gb/s throughput – dependent on such factors as boards selected, data format used, and system variables.			
Data Format (I/O)	<p>For this data type</p> <p>Optical</p> <p>Ethernet (up to 10Gb)</p> <p>Electrical</p>	<p>In this format</p> <p>OC3/STM1 – OC192/STM64</p> <p>Optical or electrical</p> <p>Various (contact EDT)</p>	<p>Use this EDT main board</p> <p>PCIe8 LX</p> <p>PCIe8 LX</p> <p>PCIe8 LX</p>	<p>With this mezzanine board</p> <p>OCM, OC192, Net10G</p> <p>OCM, OC192, Net10G</p> <p>SSE, ECL/LVD-E/RS422-E, and others (contact EDT)</p>
	Time code input is also supported through your EDT board pair or through a Time Distribution auxiliary board.			
Recording Times	Recording times may vary depending on data format and other variables. Below are sample recording times for some common formats.			
	<p>Data format</p> <p>OC192/STM64</p> <p>OC48/STM16</p> <p>OC12/STM4</p> <p>OC3/STM1</p>	<p>Available disk area / recording time</p> <p>8 TB = 100 minutes</p> <p>16 TB = 13 hours</p> <p>16 TB = 53 hours</p> <p>16 TB = 213 hours</p>		
Connectors and Cabling	Dependent on selected EDT board pair; consult EDT for purchase options.			
Other Computer Ports	<p>Front</p> <p>Back</p>	<p>Three: One serial, two USB</p> <p>Five: Two 1 GbE, one video (VGA), one keyboard, one mouse</p>		
Accessories	<p>1U rack-mount console (keyboard/monitor unit)</p> <p>WRAP Packs of sixteen additional disk drives each</p>			
Physical	<p>Weight</p> <p>Dimensions (4U with console; 3U without)</p>	<p>77 lbs. (approximate weight without console)</p> <p>7" H x 17.25" W (inside rails) x 26.5" D (27.5" with front panel and handles) or 5.25" H without console</p>		
Environmental	<p>Temperature</p> <p>Humidity</p>	<p>Operating 0° to 40° C</p> <p>Non-operating -40° to 70° C</p> <p>Operating 1% to 90%, non-condensing at 40° C</p> <p>Non-operating 95%, non-condensing at 45° C</p>		
System and Software	System comes preloaded with software. For versions, see our website.			

Support

EDT offers engineer-to-engineer customer support, from phone consultation to custom design of hardware, firmware, and software. Contact us for options and details.

Contact

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Ordering Options

- EDT board pair: Any
- Processor: 1 / 2
- Memory: 4 / 8 / 16 / 32 GB
- Rack-mount console (keyboard/monitor unit)
- WRAP Packs (16 additional disk drives each)

Bold is default. For more options, see mezzanine & main board detail. **Ask** about custom options.