

# WRAP 10G

Wideband record-and-playback system for 10Gb/s



## Description

The WRAP 10G is a powerful, flexible 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-mezzanine board pairs.

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

The 3U system has one (or, optionally, two) Intel Xeon processors, providing 4 GB (or, optionally, 8, 16, or 32 GB) of memory on the computer. Greatly extended recording times are enabled via sixteen qualified and tested disk drives of 1 TB each, providing 16 TB of raw data storage (or, optionally, 2 TB each, providing 32 TB of raw data storage). The disk drives are removable via the front panel.

Included is the EDT WRAPSODY software, which provides built-in GUI, drivers, application code, and library and software for the record-playback server.

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

Optional WRAP Packs (sixteen additional disk drives each) are available.

## 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 optical, electrical, analog radio, digital video, and time code data, through the appropriate EDT boards
- Data rates: Up to 1.25 GB/s (11.7 Gb/s), depending on configuration
- Processors: Intel Xeon (one or optional two)
- Memory: 4 GB or optional 8, 16, or 32 GB on computer
- Storage: 16 or optional 32 TB total (raw data) on sixteen removable front-panel disk drives, with no compression loss and no time inconsistencies
- WRAPSODY software with built-in GUI, drivers, and command-line utilities
- Optional WRAP Packs of sixteen additional disk drives each

## Applications

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

## Specifications

Product Type	Computer system that records and plays back up to 10 Gb/s of data; it works with virtually all EDT board pairs.			
Processors	Intel Xeon	One or optional two		
Memory	On computer	4 GB or optional 8, 16, or 32 GB		
Storage	Sixteen disk drives of 1 TB each for raw data storage of 16 TB (or, optionally, 2 TB each for raw data storage of 32 TB)			
Data Rates	Up to 10 Gb/s throughput – dependent on such factors as data format, system variables, and boards used.			
Data Format (I/O)	<b>For this data type</b> Optical Ethernet (up to 10Gb) Electrical	<b>In this format</b> OC3/STM1 – OC192/STM64 Optical or electrical Various (contact EDT)	<b>Use this EDT main board</b> PCIe8 LX / FX / SX PCIe8 LX / FX / SX PCIe8 LX / FX / SX	<b>With this mezzanine board</b> OCMP, OC192 OCMP, OC192 SSE, ECL/LVD-E/RS422-E, and others (contact EDT)
	Time code input is also supported through your EDT board pair or through a Time Distribution auxiliary board. As an alternative, third-party boards can be used.			
Recording Times	Recording times may vary depending on data format and other variables. Below are sample recording times for some common formats.			
	<b>Data format</b> OC192/STM64 OC48/STM16 OC12/STM4 OC3/STM1	<b>Available disk area / recording time</b> 8 TB = 100 minutes 16 TB = 13 hours 16 TB = 53 hours 16 TB = 213 hours		
Panel Features & Access	Front Back	Three ports: One serial, two USB Five ports: Two 1 GbE, one video (VGA), one for keyboard, one for mouse		
Connectors and Cabling	Dependent on boards used; consult EDT for purchase options.			
Optional Accessories	Rackmount rails WRAP PACK 10G (sixteen additional disk drives)			
Physical	Weight Dimensions	77 lbs. 5.25" (3U) x 17.25" (inside rails) x 26.5" (27.5" with front panel and handles)		
Environmental	Temperature (operating / non-operating) Humidity (operating / non-operating)	0° to 40° C / -40° to 70° C 1% to 90%, non-condensing at 40° C / 95%, non-condensing at 45° C		
System and Software	System comes preloaded with software. For versions, see <a href="http://www.edt.com">www.edt.com</a> .			

## Ordering Options

- Basic: PCIe8 LX / FX / SX + mezzanine board
- Processor: 1 / 2
- Memory: **4** / 8 / 16 / 32 GB
- Storage: Sixteen disk drives, each **1 TB** / 2 TB
- WRAP PACK 10G (16 additional disk drives)

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