

µWRAP 25G

High-speed record / playback for up to 24 TB of optical data



Features

Compact system for recording and playback of data in real time Reduces SWaP by eliminating the need for a host computer Data formats (via SFP/+ ports): 1-10 GbE; STM1-64; OTU1/2/2e/2f Data rates: Up to two 12.5 Gb/s datastreams, with framing Storage (SSDs): 2 or 4 (6 TB each, 12 or 24 TB total) Processor: AMD G-series Processor memory: 8 GB **Operating system: Linux** Available: EDT uWRAP 25G software EDT intellectual property for 10 GbE PCS and PMA layers, SONET/SDH framing, demultiplexing, G.709 framing

The µWRAP 25G is a compact system for recording and playback of up to two real-time 12.5 Gb/s datastreams with framed data capture. With 12 or 24 TB of data storage and two high speed optical interfaces, it provides a reduced size, weight, and power (SWaP) record / playback solution in a small, self-contained system.

Each optical blade has one SFP/+ to record and play back up to 10 GbE, STM64, or OTU2f, plus FPGA resources for framing, aligning, and descrambling datastreams. The SFP/+ also supports PCAP recordplayback for 10 GbE.

The open system is powered by an AMD G-series processor (x/86 architecture) running Linux with 256 GB system storage with 8 GB DDR3 SDRAM.

System control is via multiple ethernet ports. Command and control operations are exposed via a RESTful interface for easy tool integration.

Applications

High-speed recording and playback **Telecom** testina Simulation Network analysis

Supported Formats	STM4/16/48, 0TU1/2/2e/2f				
Data Storage	NVMe SSD		12 or 24 TB		
System Processor	Device (x86-based) AMD GX-210HA (default) AMD GX-420CA (optional)	Cores 2 (10 W total) 4 (25 W total)	Clock rate 1.0 GHz 2.0 GHz	Shared L2 cache 1 MB 2 MB	GPU clock rate 300 MHz 600 MHz
System Storage	SSD		256 GB		
System Memory	SDRAM: DDR3		8 GB		
Network Boot Protocol	ISCSI				
Transceivers	On each of the one or two optical interfaces, Port 0 supports one SFP/+ transceiver with the options shown below. ELECTRICAL (16bE) OPTICAL				
	<u>PORT 0</u>	SFP only	SFP/+*	SFP/+*	SFP/+*
			-2 to +3 / 0 to +4 1500–1580 / 1530–1565 -28 / -23 -9 / -7 LC DC3/12/48 (STM1/4/16), or 0TU 92 (STM64), or 0TU2/2e/2f –		-9 to -2.5 / -5 to -1 830-860 / 840-860 -18 / -7.5 0 / +0.5 LC
System Interfaces	System control, 1 GbE System control, 1 GbE System control, USB 2.0 x2 System display, not intende Data I/O		RJ45 SFP e microUSB DisplayPort++ (with conversion cable, allows for DVI, HDMI, or VGA) SFP/+ transceiver (x2) - for data formats shown above		
Power	Input voltage range Consumption (dependent on configuration) Power control Power input		10-60 VDC Typically 100 W with two optical interfaces 100 MbE, RJ45 connector 10-60 VDC, 6-pin Lemo connector		
Physical	Weight Dimensions		TBD - about 3.25 lbs. (with six SSD blades installed) 9.60 x 5.75 x 1.61 in. (including connectors)		
Environmental	Temperature (operating / non-operating) Humidity (operating / non-operating)		0° to 55° C / -40° to 70° C (ambient) 1% to 90%, non-condensing at 40° C / 95%, non-condensing at 45° C		
System	Operating System Record / Playback, utilities	and control	CentOS 7 Via Pre-installed GUI and command-line applications		

Ordering Options

- Data storage: **2** / 4 SSD blades (6 TB ea.)

- Transceivers: [see options above]

- Ruggedized enclosure: **0**/1

Bold is default. Ask about custom options.