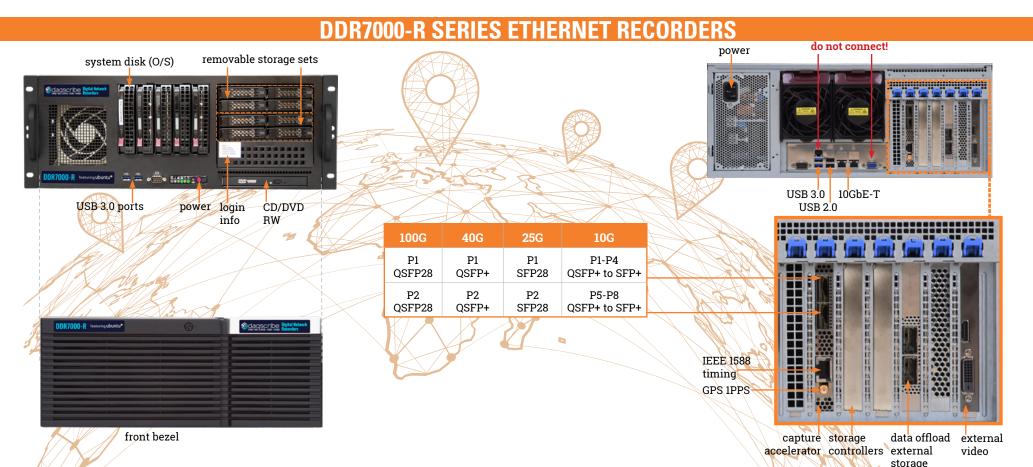


# DDR7000-R series



# **RECORDER HIGHLIGHTS**

- Our fastest rackmount Ethernet recorder series.
- Sustained 100% Ethernet capture, record, and playback performance.
- Real-time standard PCAP status monitoring of capture ports.
- System storage options up to 1 Petabyte (SSDs).
- STIG compliant & AES256 encryption options.
- ✓ Data offload: USB 3.0 and 10GbE or optional 25/40/100GbE ports.

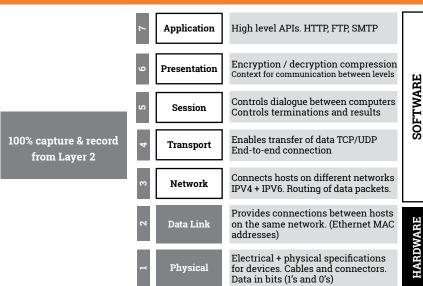
## **DESIGNED FOR ANY NETWORK PROTOCOL**

Dagscribe Ethernet recorders feature highperformance network technologies that grab data from **Layer-2** of the **OSI stack**.

This means precise packet-capture no matter the protocol, including IPV4 or IPV6; TCP to SCTP; and IP Unicast to IP Multicast.

Data is reliably stored to enterprise SSDs in real-time and as standard PCAP or NTCAP formats.

Access and analyze your recorded packetdata with common network analysis tools such as Wireshark® and ntop.®



Rackmount Ethernet recorders	Storage options	Line rate performance Network interfaces			
Hackinount Luicinet Iccordeis	Storage uptions	Packet Size 61 to 10,000 bytes	IEEE802.3	Port type	Modules (not included)
DDR7000-R-100G 100Gbps throughput 100GbE-link x 1	25TB (149TBW) 50TB (298TBW) 120TB (269TBW) (403TBW)	Rx: 100Gbps Tx: 100Gbps	100GbE	1 x QSFP28	QSFP28 100GBASE CR4/SR4/LR4
DDR7000-R-100G-2 160Gbps throughput 100GbE-link x 2	25TB (149TBW) 50TB (298TBW) 120TB (269TBW) (403TBW)	Rx: 160Gbps (1 x 100Gbps or 2 x 80Gbps) Tx: 160Gbps (1 x 100Gbps or 2 x 80Gbps)	100GbE	2 x QSFP28	QSFP28 100GBASE CR4/SR4/LR4
DDR7000-R-40G-2 80Ghps throughput 40GbE-link x 2	12TB (149TBW) 50TB (298TBW) 120TB (269TBW) 180TB (403TBW)	Rx: 80Gbps (2 x 40Gbps) Tx: 80Gbps (2 x 40Gbps)	40GbE	2 x QSFP+	QSFP+ 40GBASE CR4/SR4/LR4
DDR7000-R-40G-4 160Gbps throughput 40GbE-link x 4	25TB (149TBW) 50TB (298TBW)  120TB (269TBW) 180TB (403TBW)	Rx: 160Gbps (4 x 40Gbps) Tx: 160Gbps (4 x 40Gbps)	40GbE	4 x QSFP+	QSFP+ 40GBASE CR4/SR4/LR4
DDR7000-R-25G-4 100Gbps throughput 25GbE-link x 4	25TB (149TBW) 50TB (298TBW) 120TB (269TBW) (403TBW)	Rx: 100Gbps (4 x 25Gbps) Tx: 100Gbps (4 x 25Gbps)	25GbE	4 x SFP28	SFP28 25GBASE CR/SR/LR/LR-BiDi, dual-rate 10/25GBASE-SR/LR
DDR7000-R-25G-6 150Gbps throughput 25GbE-link x 6	38TB (223TBW) 76TB (448TBW)  153TB (896TBW) (403TBW)	Rx: 150Gbps (6 x 25Gbps) Tx: 150Gbps (6 x 25Gbps)	25GbE	6 x SFP28	SFP28 25GBASE CR/SR/LR/LR-BiDi, dual-rate 10/25GBASE-SR/LR
DDR7000-R-10G-8 80Gbps throughput 10GbE-link x 8	25TB (149TBW) 50TB (298TBW) 120TB (269TBW) (403TBW)	Rx: 80Gbps (8 x 10Gbps) Tx: 80Gbps (8 x 10Gbps)	10GbE	8 x SFP+	4 x 10GBASE CR/SR/LR
DDR7000-R-10G-16 160Gbps throughput 10GbE-link x 16	25TB 50TB (298TBW) 180TB (403TBW)	Rx: 160Gbps (16 x 10Gbps) Tx: 160Gbps (16 x 10Gbps)	10GbE	16 x SFP+	4 x 10GBASE CR/SR/LR breakout from SFP+
DDR7000-R-PB 160Gbps throughput 100GbE-link x 2	<b>1PB</b> (1740.8TBW)	Rx: 160Gbps (1 x 100Gbps or 2 x 80Gbps) Tx: 160Gbps (1 x 100Gbps or 2 x 80Gbps)	100GbE	2 x QSFP28	2 × QSFP+ ports, 2 x QSFP28

# **SYSTEMS SPECIFICATIONS**

	OTOTEINIO OI EOILIOATIONO				
Performance	✓ 100% packet capture, record, playback				
Hardware Time Stamp	✓ Resolution: 1 ns, Stratum 3 compliant TCXO ✓ Time formats: PCAP-ns/-µs, UNIX 10 ns, 1 ns				
Timing/Synchronization	✓ SMA interface for PPS (optional) ✓ RJ45 100/1000BASE-T interface for IEEE 1588 PTP support (optional) ✓ OS time synchronization				
Data Format	<ul> <li>✓ PCAP format (capture/record only)</li> <li>✓ NTCAP – PCAP style binary format (capture/replay)</li> <li>✓ CLI utilities: Simple/quick conversion from NTCAP to standard PCAP format or payload extraction</li> </ul>				
Optional Capture /Record In-Line Features (FPGA Processing)	✓ Filtering based on e.g. L3/L4 criteria ✓ GTP, IP-in-IP, GRE and NVGRE tunneling support ✓ IP fragment handling ✓ Slicing at fixed or dynamic offset				
Storage Options	<ul> <li>✓ NVMe NAND flash (enterprise)</li> <li>✓ Storage in TB with endurance TBW (Total Bytes written in PB)</li> <li>✓ SSD endurance TBW is based on 128K sequential writing</li> </ul>				
CPU & Memory	✓ Intel® Xeon® scalable dual socket CPU(s) or AMD EPYC™ CPU(s) ✓ System memory from 96GB up to 2TB				
Peripherals	✓ Power On/Off switch & LED, Locate switch & LED, NMI switch, 2 x LAN LED       ✓ 2 x rear USB3.0         ✓ 2 x rear COM port       ✓ 1 x rear COM port         ✓ 2 x rear USB3.0       ✓ Rear VGA/DVI/HDMI display				
Data Offload Options	✓ 10G: 2 or 4 x SFP+ or 10GBASE-T ✓ 40G: 1 or 2 x QSFP+ ✓ 100G: 1 or 2 x QSFP28				
Temperature	✓ Operating temperature: 0°C to 35°C (32°F to 95°F) ✓ Operating humidity: 20% to 80%				
System Cooling	✓ 92mm, 2 x 80mm fans with Smart Fan Control ✓ Front bezel with removable air filter				
Power Supply	✓ 865W high efficiency power supply, 100-240VAC, 50-60Hz				
Dimensions & Weight	<ul> <li>✓ H 7" (17.8cm) x W 17.2"(43.7cm) x D 20.5" (52.1cm)</li> <li>✓ Weight: 50lbs (24kg)</li> </ul>				
What's Included	<ul> <li>✓ 4U chassis rail kit (includes side handles)</li> <li>✓ Display monitor, keyboard and mouse NOT included</li> <li>System specifications subject to change</li> </ul>				

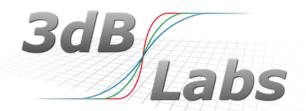
#### **APPLICATIONS** Wireless **Cable TV Autonomous Embedded** Radar vehicle systems comms access HH phased array radar R-PHY node **✓** RFSoC remote radio LiDAR **DOCSIS 3.1** synthetic aperture ✓ 5G baseband **✓** GPGPU ✓ IoT (i.e., MIPI® DSI) radar ✓ FPGA ✓ Test & Measurement ✓ u/mmWave ✓ 3D radar MIMO ✓ xHaul mipi alliance IEEE

# A versatile processing platform (software examples)













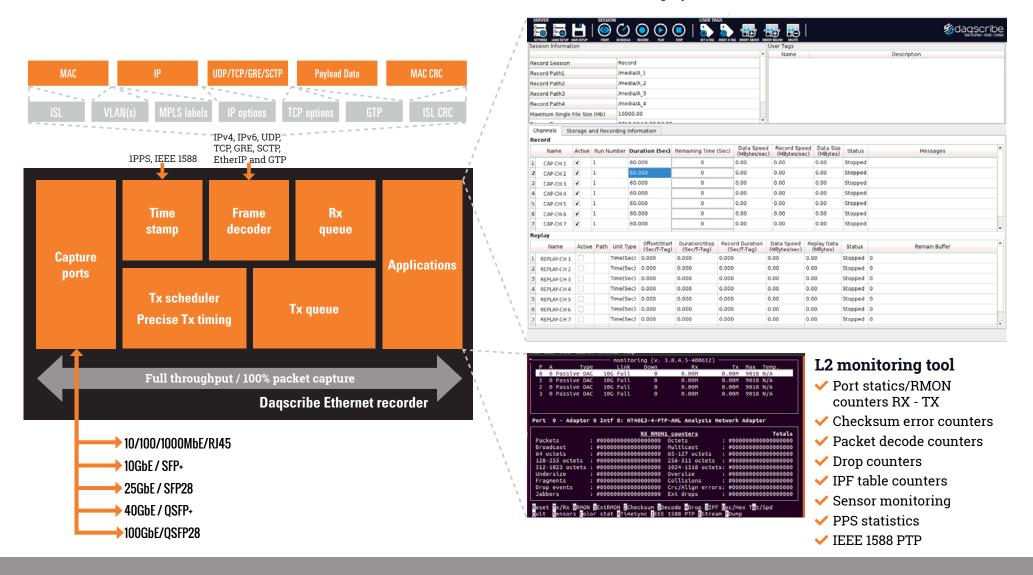




### **SYSTEM BLOCK DIAGRAM**

#### netREC™ and netPLAY™ software suite

✓ full-rate record & playback



#### Dagscribe

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