



FEATURE SUMMARY

- ✓ Our fastest rackmount Ethernet recorder featuring **8 x 10GbE** ports.
- ✓ Sustained 100% Ethernet capture and record performance at **80Gbps**.
- ✓ Up to **180 Terabytes** (SSDs) of local data storage.
- ✓ Data offload: **USB 3.0** and **10GbE** or optional **25/40/100GbE** ports.
- ✓ **STIG** compliant & **AES256** encryption options.
- ✓ Real-time status monitoring of capture ports.

OPTIONAL DATA PLAYBACK UP TO 80Gbps

MOST SUITABLE FOR THE FOLLOWING APPLICATIONS

Wireless comms



- ✓ remote radio
- ✓ 5G baseband
- ✓ μ/mmWave
- ✓ MIMO
- ✓ O-RAN

Autonomous vehicle



- ✓ LiDAR
- ✓ IoT (i.e., MIPI® DSI)
- ✓ test & measurement

Embedded systems



- ✓ RFSoc
- ✓ GPGPU
- ✓ FPGA

DESIGNED FOR ANY NETWORK PROTOCOL

- ✓ The **DDR7000-R-10G-8** captures data from **Layer-2** through **Layer-7** of the Ethernet protocol stack.
- ✓ This includes recording **IPV4** or **IPV6** protocols at the network layer and **TCP** or **UDP** protocols at the transport layer.
- ✓ The result is our robust, **network protocol-agnostic** packet recording tool.
- ✓ Data format - compatible with other popular network monitoring tools like **Wireshark**.

Daqscribe
high-speed
Ethernet
recorder

x GbE

100% capture & record
from Layer 2

7	Application	High level APIs. HTTP, FTP, SMTP	SOFTWARE
6	Presentation	Encryption / decryption compression Context for communication between levels	
5	Session	Controls dialogue between computers Controls terminations and results	
4	Transport	Enables transfer of data TCP/UDP End-to-end connection	
3	Network	Connects hosts on different networks IPV4 + IPV6. Routing of data packets.	HARDWARE
2	Data Link	Provides connections between hosts on the same network. (Ethernet MAC addresses)	
1	Physical	Electrical + physical specifications for devices. Cables and connectors. Data in bits (1's and 0's)	

Performance	<ul style="list-style-type: none"> ✓ Line rate Rx 80Gbps (8 x 10Gbps) for packet size 61 - 10,000 bytes ✓ Line rate Tx 80Gbps (8 x 10Gbps) for packet size 61 - 10,000 bytes ✓ 100% packet capture
Network Interfaces	<ul style="list-style-type: none"> ✓ IEEE 802.3 10GbE Ethernet support ✓ Network interface: 2 x QSFP+ ports ✓ QSFP+ modules: 4 x 10GBASE-CR/SR/LR breakout from QSFP+
Hardware Time Stamp	<ul style="list-style-type: none"> ✓ Resolution: 1 ns, Stratum 3 compliant TCXO ✓ Time formats: PCAP-ns/-µs, UNIX 10 ns, 1 ns
Timing/Synchronization	<ul style="list-style-type: none"> ✓ SMA interface for PPS ✓ RJ45 100/1000BASE-T interface for IEEE1588 PTP support ✓ OS time synchronization
Data Format	<ul style="list-style-type: none"> ✓ PCAP format (capture/record only) ✓ NTCAP – PCAP style binary format (capture/replay) ✓ CLI utilities: Simple/quick conversion from NTCAP to standard PCAP format or payload extraction
Optional Capture /Record In-Line Features (FPGA Processing)	<ul style="list-style-type: none"> ✓ 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 style="list-style-type: none"> ✓ NVMe NAND flash (enterprise) ✓ 25TB (149TBW), 50TB (298TBW), 120TB (269TBW), 180TB (403TBW) ✓ Storage in TB with endurance TBW (Total Bytes written in PB) ✓ SSD endurance TBW is based on 128K sequential writing
CPU & Memory	<ul style="list-style-type: none"> ✓ Intel Xeon scalable dual socket CPUs ✓ System memory from 64GB up to 2TB
Peripherals	<ul style="list-style-type: none"> ✓ Power On/Off switch & LED, Locate switch & LED, NMI switch, 2 x LAN LED ✓ 2 x rear 10GBASE-T, 1 x 1GbE IPMI ✓ 2 x rear USB3.0 ✓ 1 x rear COM port ✓ Rear VGA/DVI/HDMI display
Data Offload Options	<ul style="list-style-type: none"> ✓ 10G: 2 or 4 x SFP+ 10GBASE-T 40G: 1 or 2 x QSFP+ 100G: 1 or 2 x QSFP28
Temperature	<ul style="list-style-type: none"> ✓ Operating temperature: 0°C to 35°C (32°F to 95°F) ✓ Operating humidity: 20% to 80%
System Cooling	<ul style="list-style-type: none"> ✓ 1 x 92mm, 2 x 80mm fans with Smart Fan Control ✓ Front bezel with removable air filter
Power Supply	<ul style="list-style-type: none"> ✓ 865W high efficiency power supply
Dimensions & Weight	<ul style="list-style-type: none"> ✓ H 7" (17.8cm) x W 17.2"(43.7cm) x D 20.5" (52.1cm) ✓ Weight: 50lbs (24kg)
What's Included	<ul style="list-style-type: none"> ✓ 4U chassis rail kit (includes side handles) <p>Display monitor, keyboard and mouse are NOT included.</p>