

OPTIONAL DATA PLAYBACK UP TO 20Gbps

FEATURE SUMMARY

- ✓ A small footprint Ethernet recorder featuring **2 x 10GbE** ports.
- ✓ Sustained 100% Ethernet capture and record performance at **20Gbps**.
- ✓ Up to **30 Terabytes (SSDs)** of local data storage.
- ✓ Data offload: **USB 3.0, 1GbE and 10GbE** ports.
- ✓ Interfaces with **VRT/VITA 49** or other digital radio devices.
- ✓ **STIG** compliant, **AES256** encryption options.
- ✓ Real-time status monitoring of capture ports.

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

Cable TV access



- ✓ R-PHY node
- ✓ DOCSIS 3.1

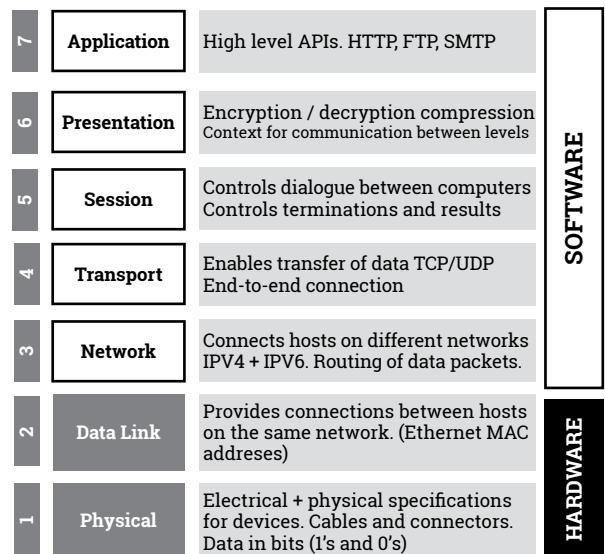
DESIGNED FOR ANY NETWORK PROTOCOL

- ✓ The **DDR70-Mini-10G-2** 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



Performance	<ul style="list-style-type: none"> ✓ Line rate Rx 2 x 10Gbps for packet size 61 - 10,000 bytes ✓ Line rate Tx 2 x 10Gbps for packet size 61 - 10,000 bytes ✓ 100% packet capture
Network interfaces	<ul style="list-style-type: none"> ✓ IEEE 802.3 10Gbps Ethernet support ✓ Network interface: 2 x SFP+ ports ✓ SFP+ modules: 10GBASE-SR/LR/ER/CR
Hardware time stamp	<ul style="list-style-type: none"> ✓ Resolution: 4 ns, Stratum 3 compliant TCXO ✓ Time formats: PCAP-ns/-µs, UNIX 10 ns
Timing/synchronization	<ul style="list-style-type: none"> ✓ OS time synchronization (default) ✓ SMA interface for PPS (optional) ✓ RJ45 100/1000BASE-T interface for IEEE1588 PTP support (optional)
Data format	<ul style="list-style-type: none"> ✓ PCAP format (capture/record only) ✓ NTCAP – PCAP Style binary format (capture/replay) ✓ Command-line-interface utilities: Simple/quick conversion of file formats and UDP payload extraction
Optional capture /record 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 option	<ul style="list-style-type: none"> ✓ NVMe NAND Flash(Enterprise) ✓ 3TB (19TBW), 6TB (37TBW), 12TB (75TBW), 15TB (34TBW), 25TB (149TBW), 30TB (67TBW) ✓ 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"> ✓ Xeon SoC: Options from 4 to 16 cores ✓ System memory: Options from 16GB to 256GB
Peripherals	<ul style="list-style-type: none"> ✓ 2 x USB 3.0 ports ✓ 1 x VGA display ✓ Power switch, Reset switch & 6 x LED indicators
Data offload options	<ul style="list-style-type: none"> ✓ 2 x USB 3.0 Ports, 2 x 10GBASE-T ✓ Optional 4 x 1GBASE-T, 2 x 10G SFP+
Temperature	<ul style="list-style-type: none"> ✓ Operating temperature: 0 °C to 40 °C (32 °F to 104 °F) ✓ Operating humidity: 10~85% (non-condensing)
System cooling	<ul style="list-style-type: none"> ✓ 3 x 4cm PWM cooling fan(s) 13K RPM
Power supply	<ul style="list-style-type: none"> ✓ 12VDC ✓ 150W AC-DC external power adapter with input 100 – 240Vac, 50-60Hz
Dimensions & weight	<ul style="list-style-type: none"> ✓ H 1.7" (4.3cm) x W 10" (25.4cm) x D 8.9" (22.6cm). ✓ Weight: 6lbs (2.8kg)
Expanded storage option with extended cover	<ul style="list-style-type: none"> ✓ H 2.8" (7.1cm) x W 10" (25.4cm) x D 8.9" (22.6cm). ✓ Weight: 7lbs (3.2kg)
What's included	<ul style="list-style-type: none"> ✓ Durable transportation case ✓ Optional rack-mount kit.