

Removable SSDs



FEATURE SUMMARY

- ✓ A small footprint Ethernet recorder featuring **4 x 10GbE** ports.
- ✓ Sustained 100% Ethernet capture and record performance at **40Gbps**.
- ✓ Up to **60 Terabytes (removable 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.

OPTIONAL DATA PLAYBACK UP TO 40Gbps

MOST SUITABLE FOR THE FOLLOWING APPLICATIONS

Radar



- ✓ phased array radar
- ✓ synthetic aperture radar
- ✓ 3D radar

Wireless comms



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

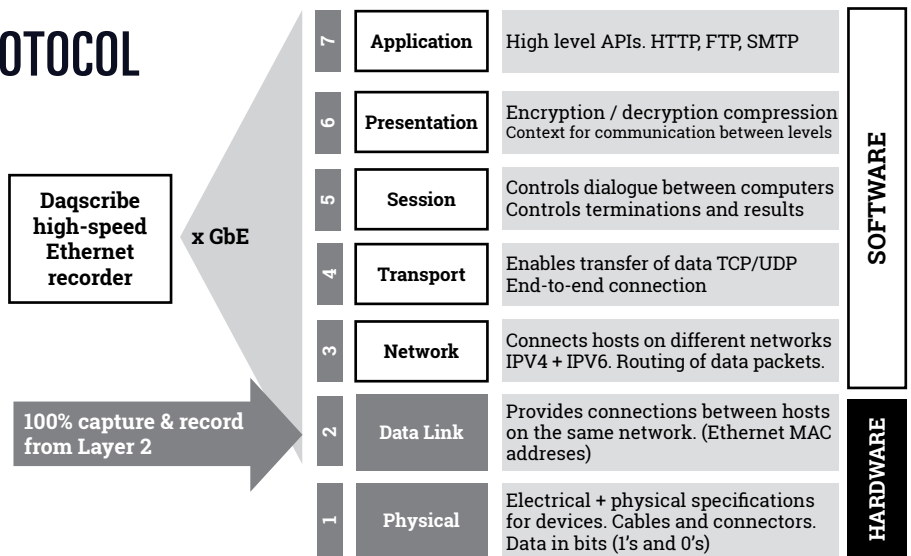
Autonomous vehicle



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

DESIGNED FOR ANY NETWORK PROTOCOL

- ✓ The **DDR70-Mini-10G-4** 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**.



Performance	<ul style="list-style-type: none"> ✓ Line rate Rx 4 x 10Gbps for packet size 61 - 10,000 bytes ✓ Line rate Tx 4 x 10Gbps for packet size 61 - 10,000 bytes ✓ 100% packet capture
Network interfaces	<ul style="list-style-type: none"> ✓ Network interface: 1 x QSFP+ or 4 x SFP+ ports
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) ✓ 12TB (75TBW), 25TB (149TBW), 60TB (134TBW) ✓ 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 or 3 x 6cm PWM cooling fan(s)
Power supply	<ul style="list-style-type: none"> ✓ 12VDC, 150W AC-DC external power adapter with input 100 – 240Vac, 50-60Hz ✓ 24VDC, 250W AC-DC external power adapter with input 100 – 240V AC, 50-60Hz
Dimensions & weight	<ul style="list-style-type: none"> ✓ H 3.5" (8.9cm) x W 11" (27.9cm) x D 9" (22.9cm) ✓ Weight: 13 lbs (6kg)
What's included	<ul style="list-style-type: none"> ✓ Durable transportation case ✓ Optional rack-mount kit.