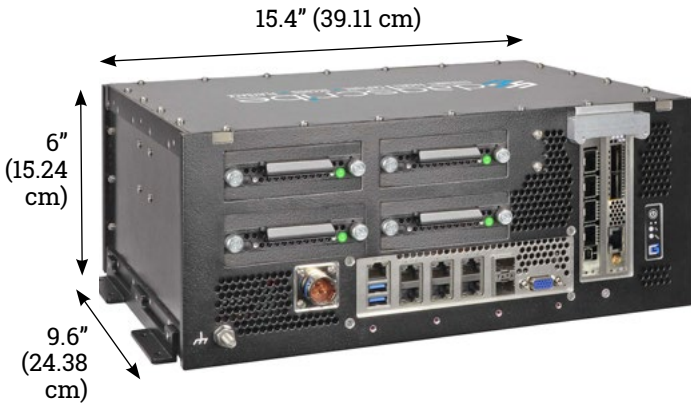


OPTIONAL DATA PLAYBACK UP TO 20Gbps



FEATURE SUMMARY

- ✓ A miniature, rugged (**MIL-STD-810** compliant), Ethernet recorder featuring **2 x 10GbE** ports.
- ✓ Sustained 100% Ethernet capture and record performance at **20Gbps**.
- ✓ Up to **60 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 option.
- ✓ Real-time status monitoring of capture ports.

MOST SUITABLE FOR THE FOLLOWING APPLICATIONS

Autonomous vehicle



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

Radar



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

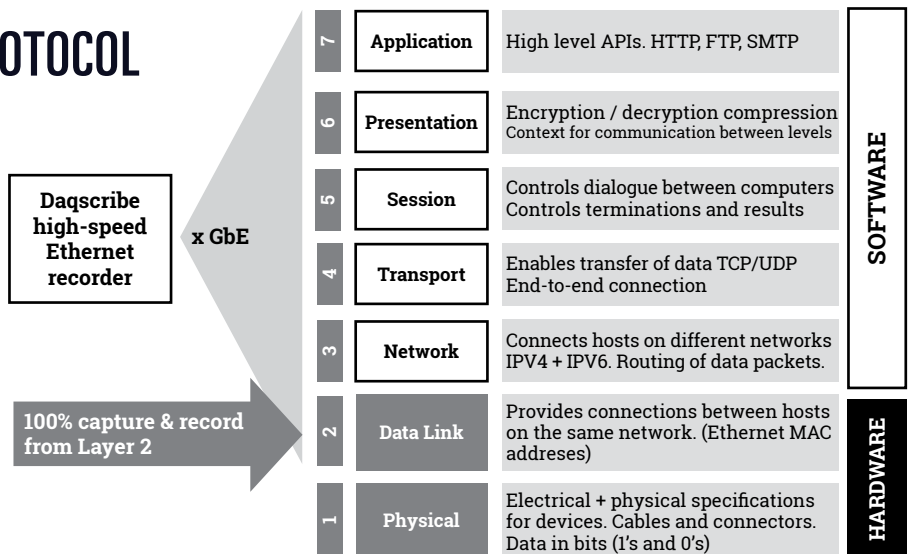
Wireless comms



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

DESIGNED FOR ANY NETWORK PROTOCOL

- ✓ The **RDR70-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**.



Performance	<ul style="list-style-type: none"> ✓ Line rate Rx 20Gbps (2 x 10Gbps) for packet size 61 - 10,000 bytes ✓ Line rate Tx 20Gbps (2 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 SFP+ ports ✓ SFP+ modules: 10GBASE-CR/SR/LR 		
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), 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 8 to 16 physical cores ✓ System memory: options from 32GB to 256GB 		
Peripherals & data offload options	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> ✓ 2 x USB 3.0 ports ✓ 1 x VGA display </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> ✓ 2 x 10GBASE-T ✓ 4 x 1GBASE-T ✓ 2 x 10Gbps SFP+ </td> </tr> </table>	<ul style="list-style-type: none"> ✓ 2 x USB 3.0 ports ✓ 1 x VGA display 	<ul style="list-style-type: none"> ✓ 2 x 10GBASE-T ✓ 4 x 1GBASE-T ✓ 2 x 10Gbps SFP+
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Environmental standards	<p>MIL-STD-810 & DO-160 (compliant)</p> <ul style="list-style-type: none"> ✓ MIL-STD-810, Operational Temperature: -40°C to +60°C ✓ MIL-STD-810, Storage, Method 501, Procedure I/II: -40°C to +85°C ✓ MIL-STD-810, Altitude, Method 500: 12,500ft operation, 40,000ft transport ✓ MIL-STD-810, Vibration, Method 514, Procedure I: 5.5G, 10-2000Hz, 60 min/axis, 3 axes ✓ MIL-STD-810, Shock, Method 516, Procedures I/V: 20g, 11msec – functional shock; 40g, 11msec – crash hazard shock 		
System cooling	<ul style="list-style-type: none"> ✓ Three high reliability 92 mm fans 		
Power supply	<ul style="list-style-type: none"> ✓ Option 1: 36 - 72 VDC, 120VAC Watt power brick ✓ Option 2: 250VDC 		
Dimensions & weight	<ul style="list-style-type: none"> ✓ Height: 6" (15.24cm) max, Width: 15.4" (39.11cm), Depth: 9.6" (24.38cm) excluding connectors ✓ 17 lbs (7.71 kg) - estimated 		
Mounting	<ul style="list-style-type: none"> ✓ Tray or bulkhead mounted using ears supplied 		