

## PacketRAID Portable

Record + Analyse + Playback



**THE WORLD'S MOST FEATURE RICH  
NETWORK RECORDER AND ANALYSER**



### ABOUT PacketRAID Portable

PacketRAID Portable is the all-in-one network recorder. Providing you with recording, playback and analysis capabilities in both portable and fixed server platform configurations.

The PacketRAID is a high speed multi-format data recorder purpose-designed for use in network security applications and test labs. It offers a single-platform solution to a wide range of test and monitoring requirements, combining ease of use with excellent performance and reliability.

Combined with it's 10G or 40G network connectivity and generous storage volume, it readily forms the core of a comprehensive high-throughput capture and analysis system.

PacketRAID's 'Raw Analysis' mode allows signals with complex multiplexing to be snapped and decoded, packets extracted and structure displayed. In the case of SDH/SONET, individual channels or GFP groups of interest can then be selected and recorded for longer periods.

### WHY BUY PacketRAID Portable

- ✓ 100MbE, 1GbE, 10GbE, and 40GbE
- ✓ OTU1, OTU2, OTU2e, OTU3 and STM-1/4/16/64/256
- ✓ Concurrent record and play back capability
- ✓ Integrated analytical suite
- ✓ Ruggedised field portable chassis
- ✓ High performance platform for storage & analysis
- ✓ Includes on-site support, maintenance & consultancy

### KEY BENEFITS



#### ACCESSIBLE DATA

All recordings are stored on standard Linux XFS partitions, securely accessible across your networks



#### HUGE FAST STORAGE

Up to 64TB of extremely high performance SSD RAID storage



#### REMOTE AUTOMATION

Fully featured JSON API enables automated control, analysis and testing



#### OPEN PLATFORM

The Linux based system allows you to install data analysis tools and applications of your choice



#### SUPPORT AND WARRANTY

Supplied with a 12 month RTB warranty which includes regular updates and support assistance

**FOLLOW US:**



# MULTI-PORT -- MULTI-FORMAT -- MULTI-SPEED

PacketRAID delivers remarkable performance and flexibility with an intuitive GUI in a portable platform. Designed for use in test labs and in network security applications, it can record and replay almost any type of traffic at a wide range of speeds. Portable PacketRAID can record and replay up to 12 x 1G packet streams, 4 x 10G packet streams, or 1 x 40G packet stream at once - any mix of LAN ethernet, WAN ethernet and PoS (SDH). It can also record and replay signals at the raw bit level including STM-1, STM-4, STM-16, channelised STM-64, OTU2 and OTU2e.

All data is stored on a very high speed SSD RAID array - optimised for sustained throughput and built with a standard Linux filing system (XFS). The use of solid state technology allows PacketRAID to record on some ports whilst replaying on others concurrently - there are no disk seek times to impact performance. Data can be imported or exported over NFS, SMB or any other standard protocol.

## RECORD

- **Supports Multiple Signal Formats:** Packet capture ports can support: LAN ethernet at both 10Gb/s and 1Gb/s, WAN ethernet at 10Gb/s (over SDH/SONET), and STM64c POS. Recordings are stored as industry standard PCAP files.
- **Multi-port Record and Playback:** All capture/replay ports are capable of operating independently in either record or playback mode.
- **Raw Capture:** Providing a comprehensive range of raw recording of: OTU1, OTU2, OTU2e, OTU3, STM-1/4/16/64 and 100MbE, 1GbE, 10GbE and 40GbE.

## REPLAY

- **Flexible Playback:** Both raw and packet recordings can be replayed, making it an extremely flexible tool for testing.
- **Configurable Replay:** Users can set the replay speed to Gbps or Packets per second or even vary the inter-frame gap.
- **Concurrent Operations:** Recordings can continue to be made concurrently whilst stored signals are replayed.

## HIGH PERFORMANCE OPEN PLATFORM

- **High Speed Storage:** Solid state disk RAID array optimised for sustained high throughput providing >40Gb/s read/write bandwidth.
- **Accessible Storage:** Standard Linux XFS file system. Stored data is both secure and accessible. Enabling authorised users access from anywhere, using NFS or SMB sharing.
- **Standard Linux:** Running CentOS with full root access provided. Install custom analytics, or your favoured applications and utilities. PAM for user authentication and custom security lockdowns.
- **High Spec:** 8-core hyper-threaded Xeon E5 processor with 128GB ECC DDR4 RAM.

## ANALYSE

- **High Performance Platform:** Huge I/O and processing performance, combined with a large amount of RAM makes PacketRAID an ideal platform on which to analyse recordings once made.
- **Comprehensive Metadata:** Each recording has an associated metadata file, providing enriched technical information. It also includes additional text fields that can be configured to meet your specific requirements.
- **Open Source Tools:** PCAP files can be loaded into Moloch for: TCP session analysis, IP geolocation identification, AS breakdowns, filtering and searching.

## INTUITIVE GUI

- **Informative Web GUI:** The intuitive GUI gives you immediate access to a wealth of data including: signal type, protocols, data rates, power levels, and payload information.
- **Graphs and Stats:** Providing quick and easy access to both statistics and graphs (e.g. signal structures, bit rates and packet rates). All stats are archived per port and per recording.
- **Command Line and API:** Allows multiple users to access the recorder all at the same time. With the added bonus of remote control through any connected web browser or automation using scripting and JSON API calls.

## CUSTOM BUILD & CONFIGURATION

- **Optical Inputs and Outputs:** Supplied with between 2 to 12 ports, from 100M to 40G. Takes standard SFP+ optics. Supports optical wavelengths of 850, 1310 & 1550nm and also electrical over RJ45.
- **Flexible Storage:** We will advise you in choosing the optimum storage capacity (16 - 64TB) based on your operational needs.
- **Ruggedised yet Portable:** Includes a padded rolling transit case. For deployments where more protection is required, a custom flight case can be specified.
- **From 1 to 5 Year Comprehensive Warranty:** Ensuring support and maintenance costs are included and are known from day one.

The Packet Company is a trading name for Innova Engineering Limited. All rights reserved. The Packet Company, PacketRAID and Packet Company logo, are registered to Innova Engineering Limited.

This document may not be reproduced or duplicated in any form, in whole or in part, without written consent from Innova Engineering Limited.

For more information please visit:  
<https://packet.company>

Innova Engineering Limited,  
Suite 6062,  
P.O. Box 6945,  
London,  
W1A 6US,  
UK

