

# EndaceProbe 4100-TR

## 100% Accurate, Cost-Effective Network Recorders for Financial Trading Networks



The EndaceProbe™ 4100-TR Analytics Platform has been designed specifically to provide highly accurate, cost effective network recording in financial trading environments.

The compact, 1RU 4100-TR model delivers 100% accurate network history recording at a sustained rate of up to 10Gbps on either four 1GbE/10GbE links or one 40GbE link into 7.6 terabytes of fast SSD storage.

Nanosecond accurate time-stamping and Provenance™ enriched recorded history makes the 4100-TR ideal for trading environments, where self-describing trade data archives help traders to meet RegNMS and MiFID II regulatory and reporting obligations.

Built-in EndaceVision™ enables fast investigation of network events down to the microsecond, allowing microburst events to be investigated quickly and conclusively.

Multiple EndaceProbes can be seamlessly connected to form a scalable, centrally managed recording fabric with capacity for petabytes of network history storage.



### 100% Accurate Recording

Dedicated hardware provides lossless capture with nanosecond accurate timestamping

- Smart Truncation auto-truncates encrypted or non-compressible packets to maximize storage
- Definitive evidence for quickly and accurately resolving security threats and network or application performance problems



### Network History Playback

Playback Network History on-demand to hosted or external analytics tools

- Playback quickly for targeted scans or slowly for deep investigation
- Playback to real-time analytics tools for historical analysis
- Mine network history, extract and download packet capture files for manual analysis.

### PERFORMANCE<sup>1</sup>



#### Write to disk

15Gbps sustained  
>700ms microburst @40Gbps



#### Maximum Flow Creation Rate

100k flows/sec



#### Maximum Concurrent Flows

1 million



#### Number of Application Dock Instances

Not supported



#### Storage depth

7.6 Terabytes SSD



#### Physical size

1U Rack Mounted

<sup>1</sup>For more information about real-world performance testing refer to our "Network Recorder Performance Measurement" whitepaper.

### BENEFITS

#### 100% Accurate

On demand access to 100% accurate, rich network history provides conclusive evidence for investigations.

#### Powerful

Automation and streamlined workflow integration enables faster investigations. This improves security and reduces the impact of network and application performance issues.

#### Open

Integrating commercial, open source and custom applications provides unified access to a single authoritative source of network history.

Analytics Function Virtualization (AFV) reduces CAPEX and OPEX through hardware consolidation which improves efficiency and increases agility.

#### Scalable and Reliable

EndaceProbes are engineered for ultra-high reliability, longevity and security. Centralized management enables scalability and reduces OPEX costs.



## Built-In Investigation Tools

- Analyze Network history with EndaceVision™, a powerful, browser-based traffic analysis tool
- Decode packets without download using EndacePackets, a browser-based packet analyzer based on Wireshark
- Analyze to microsecond level with Microvision
- Application classification for 1200+ applications



## Provenance Enriched History

Provenance™ augments recorded network history with rich contextual data.

- Self-describing packet traces support Big Data analysis, improve post-event problem resolution and simplify archiving
- Rich evidential trail for effective legal prosecution.



## Workflow Integration

Rich APIs provide integration with commercial, open source and custom applications.

- Pivot directly from alerts in 3rd -party applications to view related packets of interest in EndaceVision™ with Pivot to Packets
- Automate archival of packet traces with Pivot to Packets.



## Host Virtual Analytics

Host third-party analytics applications and give them access to real-time and recorded traffic.

- Central orchestration for fast, easy deployment.
- Enable analytics functions on-demand to meet new requirements
- Analyze network history without centralizing petabytes of data.



## Fusion Partner Program

Our market-leading, cybersecurity and network monitoring partners use EndaceProbe's API integration and Application Dock™ VM hosting to connect their solutions directly to Network History.

- Streamline and automate detection and investigation
- Choose from industry-leading security and performance solutions
- Shared access to a common, authoritative source of network history for all applications.

## EndaceProbe 8100 Series – Technical Specifications

Monitoring ports	Up to 8 x 1GbE/10GbE or up to 2 x 40GbE
Management interfaces	4x 1GbE, 2x 10GbE, 1x IPMI
Time synchronization	1 configurable as either 1PPS, IRIG-B or PTP
Size	2U 19-inch rack mount
Dimensions	Height: 87.6mm (3.45") Width: 437mm (17.2") Length: 698mm (27.48")
Weight	21.1Kg (46.5lb)
Power supply	Dual redundant 750W AC or DC
Maximum power consumption	650W
Operating temperature	10-35°C (50-95°F)
Operating humidity	8-90% non-condensing
Maximum heat load	2046 BTU/hr

## Companion Products

A wide range of fiber optics and electrical transceivers is available. See [endace.com/accessories](http://endace.com/accessories) for details.

For more information on the Endace portfolio of products, visit: [endace.com/products](http://endace.com/products)

For further information, email: [info@endace.com](mailto:info@endace.com)



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission [FCC] Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction document, may cause harmful interference to radio communications.

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