

# EndaceProbe 4100-TR

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



The EndaceProbe™ 4100-TR 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.

As with all EndaceProbes, the 4100-TR can be centrally managed using EndaceCMS™ Central Management Server. Multiple EndaceProbes can be seamlessly connected to form a scalable, centrally managed recording fabric with capacity for Petabytes of network history storage.









### Network History Playback

High-speed, on-demand Playback of Network History direct to hosted or external analytics tools, or for analysis by SecOps and NetOps teams.

- Playback history fast to 3rd-party analytics using new zero-day rules
- Playback history slowly for deeper investigation
- Find and retrieve packet captures for manual analysis
- Investigate micro-second length events.

### THE ENDACEPROBE 4100-TR AT A GLANCE

	<b>Write to disk</b>	<b>15Gbps sustained</b>
	<b>Maximum Flow Creation Rate</b>	<b>100k flows/sec</b>
	<b>Maximum Concurrent Flows</b>	<b>1 million</b>
	<b>Number of Application Dock Instances</b>	<b>Not supported</b>
	<b>Storage depth</b>	<b>7.6 Terabytes SSD</b>
	<b>Physical size</b>	<b>1U Rack Mounted</b>

### BENEFITS

#### Accurate

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

#### Powerful

Automation and streamlined workflow integration enables faster investigations, improving security and reducing 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.

#### Scalable and Reliable

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



### Analytics Workflow Integration

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

- Pivot directly to the packets of interest from your 3rd party application
- Pivot directly into the on-board EndaceVision™ and EndacePackets™ investigation tools
- Investigate security and network events without packet traces needing to leave the EndaceProbe.



### Provenance Enriched History

Provenance™ augments recorded network history with rich contextual data.

- Easier problem resolution after the fact
- Self describing packet traces enable Big Data analysis and simplify archiving
- DPI based application classification for more than 1200 applications
- Richer evidential trail for effective legal prosecution.



### Fusion Partner Program

Endace’s Fusion Partner Program is an ecosystem of market-leading cybersecurity and network monitoring vendors. Endace Fusion Partners leverage the EndaceProbe’s API integration and Application Dock hosting to connect their solutions directly to network history, streamlining and automating detection and investigation

- Choose from industry-leading security and performance solutions
- Give all your chosen applications access to a common, authoritative source of network history for a unified view of network security and performance.



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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### EndaceProbe 4100-TR – Technical Specifications

Monitoring ports	4 x 1GbE/10GbE or 1 x 40GbE
Management interfaces	4x 1GbE, 2x 10GbE, 1x IPMI
Time synchronization	1 configurable as either 1PPS, IRIG-B or PTP
Size	1U 19-inch rack mount
Dimensions	Height: 43.2mm (1.7")
	Width: 437mm (17.2")
	Length: 698mm (27.48")
Weight	14.4kg (31.7 lbs)
Power supply	Dual redundant 750W AC or DC
Maximum power consumption	600W
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)