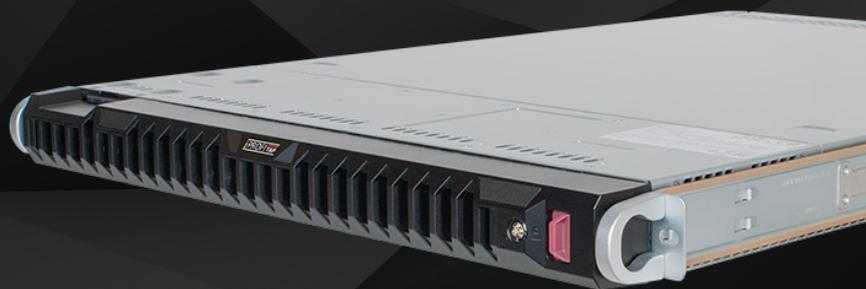


IOTA 100 CORE

PROBE • CAPTURE • ANALYZE



IOTA 100 CORE is a high-speed packet capture and analysis solution for core networks, large branches, and data centers. It empowers network engineers to rapidly identify, analyze, and resolve performance issues, application bottlenecks, and security risks.

With IOTA 100 CORE, you can continuously capture network traffic and extract detailed real-time and historical insights into critical applications and data flows. By combining full packet capture with advanced metadata extraction, IOTA helps you:

- **Baseline network behavior:** Spot anomalies faster by measuring standard performance metrics during typical operation conditions to establish a reference point.
- **Spot performance issues:** Diagnose latency, throughput, packet loss, and retransmissions at a glance.
- **Analyze application behavior:** Track over 3,000 applications and protocols.
- **Maintain network integrity:** Quickly pinpoint security flaws and irregular protocol usage.

IOTA 100 CORE supports two 40/100G capture ports and can be deployed alone or with TAPs and Network Packet Brokers for maximum flexibility. Internally, a robust high-durability RAID 5 solid-state storage architecture ensures seamless packet capture and network activity storage, enabling real-time and long-term forensic analysis on high-speed networks.

- **Ring buffer:** Avoid data loss by continuously recording traffic in a loop.
- **Capture efficiency:** Apply filters to reduce the amount of data captured and choose to capture metadata only. This can reduce data volume by up to 90% compared to raw PCAP files while retaining critical packet-level details.
- **Scalable storage:** Choose the SSD capacity that matches your retention and analysis needs.

Features

- 2 x 40/100G out-of-band capture inputs (8 x 10G or 4 x 25G via breakout cables)
- Dedicated probe and analysis capabilities
- Real-time statistics
- Ring buffer
- PTPv2 (IEEE 1588) nanosecond precision timestamps
- Remote access and management
- 32, 64, 128, or 307 TB high-endurance solid-state storage in RAID 5 configuration

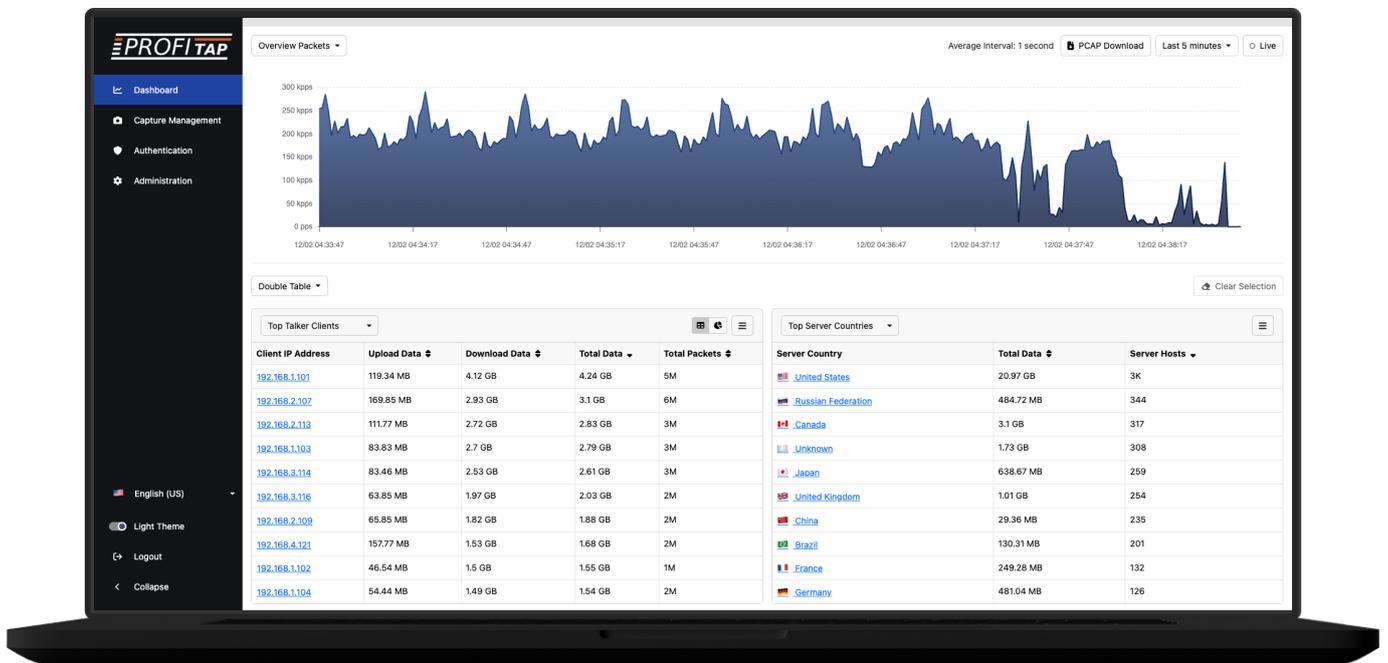


Technical specifications

CONNECTORS	LEDS & BUTTONS
2 x 40/100G QSFP28 capture 2 x SFP+ 1/10G management 2 x RJ45 1/10G management 1 x RJ45 1G BMC IPMI 1 x RJ45 1G PTPv2 2 x USB 3.0, 2 x USB 2.0 1 x VGA, 1 x COM	Information LED NIC1/NIC2 LEDs HDD LED Power LED UID LED Power button UID Button / BMC Reset
DIMENSIONS (WxDxH)	WEIGHT
440 x 620 x 44 mm 17.3 x 24.4 x 1.7 in	11.3 kg 25 lb
STORAGE	POWER
32, 64, 128, or 307 TB high-endurance solid-state storage	800W: 100-127 VAC, 9-7.5 A, 50-60Hz 860W: 200-240 VAC, 6-4.5 A, 50-60Hz
COMPLIANCE	ACCESSORIES
RoHS, CE, FCC, UKCA, TA	Rackmount kit 2 x 860W Platinum redundant PSUs

RAID 5

All storage options are configured in RAID 5, which provides a strong balance of redundancy, capacity efficiency, and read/write performance. The single-parity protection safeguards captured data from a single disk failure while maximizing usable storage space.



Data retention at full line rate

DEVICE	CAPTURE BALANCE 0-100%		40 GBPS	100 GBPS
CBC-100-32T	50/50	Packet Capture	0d 0h 46m	0d 0h 18m
		Metadata	3d 5h 46m	1d 7h 6m
	100	Packet Capture	0d 1h 33m	0d 0h 37m
		Metadata	6d 11h 33m	2d 14h 13m
CBC-100-64T	50/50	Packet Capture	0d 1h 31m	0d 0h 36m
		Metadata	6d 8h 46m	2d 13h 6m
	100	Packet Capture	0d 3h 3m	0d 1h 13m
		Metadata	12d 17h 33m	5d 2h 13m
CBC-100-128T	50/50	Packet Capture	0d 3h 1m	0d 1h 12m
		Metadata	12d 14h 46m	5d 1h 6m
	100	Packet Capture	0d 6h 3m	0d 2h 25m
		Metadata	25d 5h 33m	10d 2h 13m
CBC-100-307T	50/50	Packet Capture	0d 6h 13m	0d 2h 29m
		Metadata	25d 22h 13m	10d 8h 53m
	100	Packet Capture	0d 12h 26m	0d 4h 58m
		Metadata	51d 20h 26m	20d 17h 46m

Tests based on average data center traffic

Performance

Sustained write to disk: 100 Gbps

Average throughput (analysis): 100 Gbps

Number of flows: 9 M flows per second

Number of packets: 16 M packets per second

Order references

CBC-100-32T	IOTA 100 CORE incl. capture to disk function with L2-L7 statistics, 32 TB internal storage (10 x 3.2 TB), 1 year of warranty and maintenance (professional support, software updates, and ZeroTier services)
CBC-100-64T	IOTA 100 CORE incl. capture to disk function with L2-L7 statistics, 64 TB internal storage (10 x 6.4 TB), 1 year of warranty and maintenance (professional support, software updates, and ZeroTier services)
CBC-100-128T	IOTA 100 CORE incl. capture to disk function with L2-L7 statistics, 128 TB internal storage (10 x 12.8 TB), 1 year of warranty and maintenance (professional support, software updates, and ZeroTier services)
CBC-100-307T	IOTA 100 CORE incl. capture to disk function with L2-L7 statistics, 307 TB internal storage (10 x 30.72 TB), 1 year of warranty and maintenance (professional support, software updates, and ZeroTier services)
CBC-100-APDA	IOTA 100 CORE advanced protocol decoding and analysis license (RTP/VoIP, DNS, TLS, TCP, QoS)
CBC-MAIN	IOTA 100 CORE 1 year of extended maintenance (professional support, software updates, and ZeroTier services)
CBC-WAR	IOTA 100 CORE 1 year of extended hardware warranty (does not cover SSD)