## 

#### PROBE · CAPTURE · ANALYZE

The IOTA 10G+ is a multifunctional passive network probe with integrated traffic capture and analysis capabilities. With high performance and reliability, it is a great asset to get access and visibility into industrial or enterprise level networks. Profitap IOTA can be used as a dedicated probe, or programmed for autonomous onsite analysis, eliminating the need of an onsite network expert.

The IOTA 10G+ is designed to be easy to use, meaning the device can be set up and activated without extensive knowledge. Analysis can be performed later on by experts, remotely. IOTA 10G+ is fitted with GPS and PPS ports to provide advanced timestamping features.

#### **Technical Specifications**

CONNECTORS	LEDS & BUTTONS
2 x SFP+ in-line/SPAN 1 x RJ45 management 1 x USB 3.0 type A 2 x 12 VDC / 2.5 A power (12V model) 2 x 24-48 VDC power (24V model) 1 x SMA female (PPS) 1 x SMA female (GPS)	4 x SFP+ link/activity LED 2 x RJ45 link/activity LED 1 x status LED 1 x capture LED 1 x capture button 1 x Sync LED
DIMENSIONS (WxDxH)	WEIGHT
105 x 164 x 38 mm 4.13 x 6.46 x 1.5 in	600 g 1.32 lb
SPEED	COMPLIANCE
1 / 10 Gbps	RoHS — CE
ACCESSORIES	
1 x 12 VDC PSU (12V model) 1 x DC terminal block (24V model) 1 x 1.5 m RJ45 cable GPS/GLONASS Antenna	



IOTA's In-line circuit is isolated from the other interfaces, internal storage and analysis processing. This makes sure your network stays safe from outside attacks while still enabling full network visibility and analysis.

#### Features

q	1G/10G monitoring
ļ	Dedicated probe and analysis capabilities
þ	Programmable autonomous capture functions
ļ	Remote access and management
Ş	Non-intrusive monitoring
ļ	SPAN and In-Line modes
Ş	8 ns hardware timestamp
ļ	Packet slicing
ļ	Hardware filtering
ļ	Real time statistics
Ş	Low level error and bandwidth monitoring
þ	Invisible to the network
ļ	PoE+ powering possibility (through management
ļ	1 TB or 2 TB swappable SSD
ļ	GNSS (GPS/GLONASS) UTC timestamping
	PPS synchronization (input/output)

IOTA 10G+	PORTABLE MODEL	RACKMOUNT MODEL
1 TB SSD	CBP-10G2-1T	CBR-10G2-1T
2 TB SSD	CBP-10G2-2T	CBR-10G2-2T



CBR-10G2 Rackmount Model

port)

084



# Real Time Traffic Analysis

Out of the box, IOTA comes with its own integrated software to help analyze the captured data in real-time. By extracting metadata from the captured files, IOTA is able to give you a real-time visual overview of what is happening on your network. IOTA dashboards help you filter large amounts of network traffic instantly, greatly optimizing your workflow and reducing time spent on troubleshooting.



								3.49 GB
1		<u>.</u>		the state of the	-			Teal Paster 4.90 Mil
s	d drammer							
Clast P 10136811			Mar Nya Let Maya	Sanar IP 172,28,199,258		Average lops #11.70 klops	Maritys 2.42 Miga	
	210.00	Average type 107.50 etges						
102 108 1.1 172 28 110 208	545-22 MB	Neerogo hys 107 50 klige 243.00 klige	2.42 Mige 2.21 Mige	172 34 100 318 11.0 8 19	2 01 60 2 01 60 324.00 MB	#13.79 Mps 107.45 Mps	2.42 Miga 609.31 kitpe	
90236433 10228 994208 922339	545 - 2 H 55 4552 M0 1135 M3	Peerings bys 107 50 kitys 243.02 kitys 113 95 kitys	2.42 Migs 2.21 Migs 525.08 Migs	172.04.196.209 160.0.0.10 192.568.1.1	546 * 2.01 68 374.00 MB 506.54 MB	413.75 Mp4 101.45 Mp4 121.75 Mp4	2.42 Mige 609.31 Mige 2.31 Mige	
901.944.1.5 175.244.946.208 901.944.1.208 901.944.1.208	546 4 2 16 08 40 52 M0 11.35 M8 3 17 M8	243.02 Mgs 107.03 Mgs 243.02 Mgs 113.95 Mgs 12.60 Mgs	2.42 Mige 2.21 Mige 525.28 Mige 670.73 Mige	172.04.196.258 16.0.8.10 192.168.1.1 192.168.1.280	2 01 08 2 01 08 574 09 549 506 54 549 415 42 48	413.75 köpe 107.46 köpe 127.75 köpe 71.45 köpe	2.42 Migs 625.31 Migs 2.31 Migs 816.82 Migs	
100 104 13 102 24 104 220 102 24 104 220 102 104 1320 102 104 1320	546 * 2 16 08 40 52 M0 11 35 M8 3 17 M8 1 27 M8	Average type       307 50 mige       243.00 klipe       113.05 klipe       12.60 klipe       49.34 klipe	2.42 Maps 2.21 Maps 529.58 Maps 6/0.72 Maps 57.57 Maps	172 34 544 354 160 8 10 199 548 1 1 199 548 1 200 16.33,41,395	0445 * 2 01 08 574,00 MB 506 54 MB 615,82 MB 51,51 MB	413.79 kbps 101.45 kbps 121.79 kbps 71.45 kbps 17.45 kbps	2.42 Mige 600.33 Mige 2.31 Mige 816 Mige 23.43 Mige	
982 948 5.5 512 24 740 228 512 5 55 512 5 55 512 5 54 5 258 512 548 5 240 512 548 5 240	546 + 2 36 68 465 52 48 11.55 48 3.57 48 1.27 48 1.25 48	Average type       507 50 migs       243.00 vlaps       113 95 vlaps       12.60 vlaps       49.34 klaps       49.34 klaps	2.42 Maps 2.21 Maps 525.38 Maps 675.73 Maps 57.57 Maps 57.69 Maps	1772 JA 1984 204 162 0 8 10 1982 104 1 1 1982 104 1 200 162 12 4 1 200 1982 104 1 200	0464 + 2.01 68 57 50 54 68 50 54 68 615 89 68 51.51 68 21.51 68 21.54 68	413.75 Mp4 107.45 Mp4 121.75 Mp4 71.45 Mp4 17.45 Mp4 MD.32 Mp4	2.42 Mays 605.33 Mays 2.31 Mays 896.80 Mays 28.43 Mays 1.45 Mays	
982.948.5.5 152.28.796.228 955.5.59 955.348.5.246 955.348.5.245 955.948.5.245 955.948.5.245 955.948.5.245	249.59 249.59 455.22 Mg 11.31 VB 3.57 VB 1.27 VB 1.27 VB 1.27 VB 1.27 VB	Average type 107.50 kitye 243.00 kitye 113.95 kitye 12.80 kitye 49.34 kitye 49.54 kitye 202.86 kge	3.42 Miga 2.23 Miga 525 Shikas 675 73 Miga 57 K7 Miga 57 K7 Miga 205 Shipa	172 26 198 298 162 3 19 192 568 11 193 568 120 193 568 1200 193 568 1200 193 568 1200 193 568 1200	2006 * 2 01 68 324.00 MB 505.56 MB 415.82 MB 51.51 MB 21.54 MB 4.22 MB	413.75 köpe 107.45 köpe 121.75 köpe 71.43 köpe 17.43 köpe 540.53 lige 1.84 köpe	2.42 Migo 400.31 Migo 2.31 Migo 848.80 Migo 28.40 Migo 1.46 Migo 7.38 Migo	

## Home Dashboard

A quick overview of Top Talkers and client-server data transfers.



## TCP Round Trip Time

RTT triggers per flow, server, and client. TCP flag statistics.



# User Experience Application Latency

Application latency from the client IP perspective.



#### **TCP Retransmissions**

Retransmissions percentage over time per client and server. TCP flag statistics.



#### **TCP Server Congestion**

An overview of zero windowing events per server over time, detecting when a server is saturated. Includes statistics of number of flows per server.

#### TCP OOO and Lost Packets

Top Client / Server lost and Out Of Order packets.



#### **DNS** Overview

Overview of top DNS servers and most queried servers.



#### DNS Details

Overview of top DNS servers and most queried servers.

# Image: Contract of the contra

#### Explore L2L3

Overview of network traffic with devision per OSI layer.



#### Explore L3L4-7

Overview of network traffic with devision per OSI layer.

III Flow -					
21.44 12.45					3.82 GB
	<u>h</u>	 <u></u>	dia	<u> </u>	5.35 Mil

#### Flow

Analyze application and network traffic based on Flow ID, Client IP, Server IP, Protocol, etc...

Hosts -		
P Address	Hallow Concerning	Error Kore

#### Hosts

Overview of servers, including GeoIP resolution in map.

					NE 1993 1994	L. L. M. R. Markell
· .:						
		Top App Latency	Max Application Laterary #			
102 144 145 146	104	Appleature	Ma Typicates Lakety -	2015707940855	194.0.10	101
103411			1884	2020034022055	1960.10	6.004
172.28.114.258			1911	70190540841177	194.0.90	1.00
10.0.0.10		Unitedant	4014	41007541401870	1940.00	1.001
10,1441,230			1361	61396777947954	194.0.10	5.99.0
			1824	25848578013144		1.04
			2013244	61464221642041		3264
			72.45.4%	54100-013480		8.87 4
			3.47 mg	721958817/67429		3.854
			0.54-74	61184025496510		3.054

#### Return Code

Troubleshoot HTTP server response.

		871 MB
		Total Packet 1.438 Mil
204 (Partial Contern)		
204 (Partial Contant)		
121 (Switching Protocold)		
101 (Switzhing Personis)		
404 (Net Found)		
354 (Net Modified)		
201 (18)		

#### Server Latency

Top application and network latency, including Round Trip Time.