# 

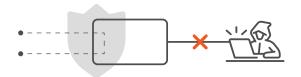
#### PROBE • CAPTURE • ANALYZE

The IOTA 1G 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 1G 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.

#### **Technical Specifications**

CONNECTORS	LEDS & BUTTONS
2 x RJ45 in-line/SPAN 1 x RJ45 management 2 x USB 3.0 type A 1 x 12 VDC / 2.5 A power (12V model) 1 x 24–48 VDC power (24V model)	6 x RJ45 link/activity LED 1 x status LED 1 x capture LED 1 x capture button
DIMENSIONS (WxDxH)	WEIGHT
105 x 124 x 38 mm 4.13 x 4.88 x 1.5 in	424 g / 0.934 lb
SPEED	POWER CONSUMPTION
10 / 100 / 1000 Mbps	12 W typical
COMPLIANCE	ACCESSORIES
RoHS — CE — EN 45545-2	1 x 12 VDC PSU (12V model) 1 x DC terminal block (24V model) 1 x 1.5 m RJ45 cable



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

9	10/100/1G line-rate traffic capture
0	Dedicated probe and analysis capabilities
0	Programmable autonomous capture functions
þ	Remote access and management
0	Non-intrusive monitoring
þ	SPAN and In-Line modes
0	8 ns hardware timestamp
þ	Packet slicing
þ	Real time statistics
0	Low level error and bandwidth monitoring
0	Invisible to the network
þ	PoE+ passthrough
6	1 TB internal storage

IOTA 1G	PORTABLE MODEL	RACKMOUNT MODEL
12V	CBP-1G	CBR-1G
24V	CBP-1G-24V	CBR-1G-24V



CBR-1G Rackmount model



# Real Time Traffic Analysis

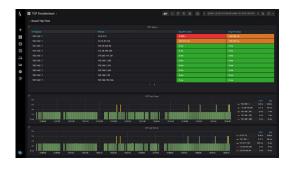
Out of the box, IOTA comes with its own integrated software to help analyze the captured data in real-time. By extracting metadata from the captured files, IOTA is able to give you a real-time visual overview of what is happening on your network. IOTA dashboards help you filter large amounts of network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



								3.49 GB
2 1000 1 1000 1 1000	11.00.00 11.01.00			and a day	1548 1010			4.90 Mil
1								
- and hannes	thousand	ull Lond L.	anne ditta ann	andlessiltingly -				
,	Alternational No. 10 No. 10		and the second	antheasthing	1			
, and the second								
Chert P 1920613	Top Clear Top Clear 218 08	Average bys 107.53 kbps	Maribpi 2.42 Mbpi	Samer P 19228-196228		Arrenge bys #13.78 kbps	Man bys 2.42 Mitys	
, and the second								
( and the second	Top Clear Top Clear 218 08	Average bys 107.53 kbps	Maribpi 2.42 Mbpi	Samer P 19228-196228		Arrenge bys #13.78 kbps	Man bys 2.42 Mitys	
Clear IP 1922/04/13 1922/04/13	Tap Clear Tap Clear Date + 2.98 GR 469.823/88	Average bys 107.53 kbps 245.07 kbps	Max bps 2.42 Mbps 2.31 Mbps	Server IP 1/12/08.1963209 10203.13	Tap Server Entre • 2.01.08 \$74.06.MB	Annage box 413.79 kbps 109.46 kbps	Max tox 2 x2 Mbps e09 11 Mbps	
Clear # 10.544 192.246.15 192.266.16 100.519	190300 1907-00 1 Tap Olivet 2:19:08 427.82345 11.36.969	Average bys 107.53 kbps 245.07 kbps 113.95 kbps	Max hpe 2.42 Milps 2.33 Milps 52938 Hope	Sector # 1712811993299 1603332 19276333	Top Server 2 01 08 576 08 596 596 54 490	Annage bys et 3.78 kiejs 108 At Alejs 128 78 kiejs	teles tops 2.42 Millon 469 11 Millon 2.31 Millon	
Cheel (P 190,246,13) 192,246,190,220 192,246,190,220 192,246,190,220 192,041,13	1900 1900 1900 1900 1900 1900 1900 1900	Average type 507:53 ktops 245.02 ktops 153.95 ktops 12.50 ktops	Max bps 2.42 Mips 2.83 Mips 52938 Mips 630 23 Mips	Server # 172.28.198.298 100.3.19 192.168.1.1 192.168.1.1 192.168.1.200	Top Server Enter 2 01 08 474 06.448 505.54.448 415.83.68	Annage bys 413 70 kilges 109. Alt kilges 129. 70 kilges 71. Alt kilges	Man box 2.42 Miton 609 31 Miton 2.31 Miton 816 93 Miton	
4.400000000000000000000000000000000000	Top Chart Data + 2.16 Chart 2.16 CA 449.822 MB 11.21 MB 3.57 MD 1.27 MD	Average bys 507.83 klops 245.02 klops 133.95 klops 12.60 klops 40.24 klops	Machpe 2.42 Mipe 2.33 Mipe 509 38 Hope 630 23 Mipe 830 23 Mipe 832 07 Mipe	Server 9 5028 198228 100319 19224831 19224831 19224831 19224831 192348398	Top Server 20108 576.85 AM 506.54 MB 415.83 AB 61.61 AB	Annage bys 413 79 köps 109 46 köps 125 79 köps 21 43 köps 17 43 köps 17 41 köps	Man hps 2 x2 Mips 619 31 Mips 2 31 Mips 816 53 Mips 2 845 53 Mips 2 845 14 ps	
Clear P 192.264.3.5 192.264.3.5 192.264.3.5 192.264.3.5 192.264.3.20 192.164.3.20 192.164.3.20 192.164.3.20	Top Oliver. Top Oliver. 2:09:04 4:09:02:06 11:30:06 3:27:00 1:27:00 1:25:00	Average lips 507-03 klose 245.07 klose 113.95 klose 12.50 klose 40.24 klose 41.54 klose 45.54 klose	Machpe 2.42 Miljes 2.33 Miljes 509 38 Hope 630 22 Miljes 52 d2 Miljes 82 d2 Miljes	Server # 122.08.198.208 100.0.19 192.246.11 193.246.120 30.11.41.166 103.11.41.166 103.11.41.166 103.11.41.166	Tap Darwer Date + 2 00 GB 576 58 MB 615 58 MB 615 58 MB 61 51 MB 21 54 MB	Annage bys e13.79 kbps 107.46 kbps 123.79 kbps 123.79 kbps 124.84 kbps 125.41 kbps 125.41 kbps 125.41 kbps	Man hps 2 x2 Mips elf9 31 Mips 2 31 Mips 2 34 Mips 2 845 93 Mips 2 845 194 ps 3 x44 Kips	
(	Top Officer Top Officer 2 (98 64 459 823 MS 3 827 MS 3 827 MS 1 27 MS 1 827 MS	Average bye 107.53 kbps 241.02 kbps 113.55 kbps 12.60 kbps 40.24 kbps 41.54 kbps 202.50 kps	Mai bys 2.42 Milys 2.33 Milys 529 J8 Hope 830 23 Milys 537 Orbes 537 Orbes 537 Orbes 537 Orbes	50000 (P) 172 28 196 200 160 333 182 248 31 193 248 31 193 148 1396 193 148 1395 193 148 1395 195 148 135 566	Tap Darwer Date + 2 00 GB 506 54 MB 615 83 83 61 51 84 21 54 88 4 32 88	Annage bys ett3.29 ideas 100 et idea 121 Al idea	50x bps 2.42 Mbps 609 31 Mbps 2.31 Mbps 818.93 Mbps 28.43 Mps 5.44 Kops 5.44 Kops 7.38 Kops	

### 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.

#### Explore L2L3

Overview of network traffic with devision per OSI layer.





#### Explore L3L4-7

Overview of network traffic with devision per OSI layer.

# Image: Contract of the second seco

#### Flow

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

1		
7 Alberta	Notices	And the second sec
224.0.0.212		

### Hosts

Overview of servers, including GeoIP resolution in map.

				 L. M. R. Marani
2				
		44.27.6		6.00 +
		38.65		8.00 +
		591		5.99 a
		4.02 s		5.99 a
		184		5.99 s
		1024		3.99 a
		238.82 mi		3.00 +
		72.6549		3.97 s
182.166.1.1 10.13.41.195		147 m	20195861747429	3.05 s

#### Return Code

Troubleshoot HTTP server response.

Notice         Notice<	Product				
Image: Instance         Image: Ins	Image: State				
Product         Part // Part /	Article (Constraint)         Model (Constraint)         Model (Constraint)           Article (Constraint)         Article (Constraint)         Article (Constraint)           Brance (Constraint)         Article (Constraint)         Article (Constraint)	2 *** I IUI			
Bit Statistics         Bit Statistics         Advances         Advances         Advances           Bit Advances         Bit Statistics         Advances         Advanc	No.         Ansatz         Ansatz				
Import         Import<	Import         Import         Import         Import           Status         Status         Amanga Manga				
Default         Text         Answerder         Answerder           Britering         10.00         0.00000000000000000000000000000000000	Important         Important         Important         Important           Important         Important         Important         Important         Important	206 (Partial Content)	91.185.113.64		
Bit Mark         Constraints         Automatication           Prime         1000         400 digitality         Automatication           Prime         1000         Automatication         Automatication	Control         Control <t< td=""><td>206 (Partial Content)</td><td>91.183.193.64</td><td></td><td></td></t<>	206 (Partial Content)	91.183.193.64		
Image: Section 2016	Note:         Constrained         Authorst Straining           File Model         ILE:         Authorst Straining	101 (Switching Protocold)	184.173.90.195		
Bit Spanished         193 KL7.4         193 KL7.4         Joing prig.           Bit Spanished         193 KL7.4         Joing prig.         Joing prig.           Bit Spanished         193 KL7.4         Joing prig.         Joing prig.           Bit Spanished         193 KL7.4         Joing prig.         Joing prig.	Image: Instant         Image: Ima	101 (Switching Protocold)	173 192 82 196		
200 (200) 165 (264 )(31 )(32) 165 (264 )(32) 165 (2	14526(3) 16526(3) 16 16526(3) 16 1656(3) 16 16526(3) 1	404 (Not Found)	2.22.11.9.295		
200 200 105 204 30 152 Auto 2017 2019 2019 2019 2019 2019 2019 2019 2019	200 200 105294 201 302 200 201 201 201 201 201 201 201 201 2	304 (Not Modified)	19995.57.6		
		200 (200)	14523435.110		

#### Server Latency

Top application and network latency, including Round Trip Time.