2019

PRODUCT PORTFOLIO

NETWORK MONITORING, ANALYSIS AND TROUBLESHOOTING

FIBER TAPS

COPPER TAPS

NETWORK PACKET BROKERS

PORTABLE TROUBLESHOOTERS

IN-DEPTH PACKET ANALYSIS SOFTWARE

VISIBILITY

PERFORMANCE

SECURITY

PROFI TAP

PROFITAP: THE COMPANY

HIGH TECH CAMPUS — EINDHOVEN

Established in 1984, PROFITAP® develops and manufactures high-quality and user-friendly network monitoring tools.

Our wide range of high-density Network TAPs, Packet Brokers, and portable field service troubleshooters are designed to provide you with complete visibility and access to your network 24/7 all year round.

Profitap is proud to provide the ideal solution for traffic capture and network troubleshooting.

Premium Quality Products

Profitap proudly synthesizes maximum security and performance into all it's products. Our dedication toward developing a perfect blend of form and function has resulted in some of the most lightweight, advanced and portable devices on the market.

Profitap has been providing hardware solutions for network analysis and traffic acquisition to organizations and professionals globally for 33 years. With products such as the Interop award-winning ProfiShark® 1G device, we have fused high performance with portability to create exclusive, industry leading monitoring solutions.

Profitap devices use hardware embedded field-programmable gate array (FPGA) technologies, resulting in extremely low latency. Thanks to Profitap's non-intrusive and fail-safe design, our TAPs ensure the utmost security for both network and monitoring appliances.

All devices are subject to a zero failure production regime and following this are stress tested, and in the case of fiber TAPs microscopically inspected to ensure that the optics are dust free.

An Innovative Brand

Profitap continues to provide the same product excellence since it was established in 1984. With our experience, we manufacture and deliver exceptionally designed, innovative monitoring solutions.

We have developed our products to be front-runners in the industry where the definition of excellence is constantly being challenged.

Experienced Partner Community

Our Partners are fully trained and certified in Profitap's solutions. They are selected for their technical expertise and high standards of customer service. This ensures that working with Profitap solutions is simple, so you can concentrate on running your business.

Global Coverage

With more than 1.000 clients from 55 countries, Profitap has become an integral solution for major businesses, many of which are Fortune Global 500 companies.

Constantly Improving Our Technology

Profitap is self funded and has an enviable successful financial track record with investment in Research and Development (R&D) being significantly above the market average. This results in the release of innovative devices that are unique in the market.

Easy to Work With

We offer free access to our technical support desk as a single point of contact for technical queries and all the product support you need to lead, close and succeed.

PRODUCT LIST

COPPER TAPS

No Break
PROFITAP® Copper TAPs feature dramatically reduced failover time, consequently reducing the chances of Spanning Tree reconvergence.

Link Failure Propagation
PROFITAP® Copper TAPs transmit link failure errors between ports, allowing the network to activate a redundant path, while the TAP stays available for auto-negotiation. LFP ensures less downtime, and is essential for high availability networks.

100% Visibility
PROFITAP® Copper TAPs monitor all 7 OSI layers, packets of all sizes and types, and low-level errors, making sure not a single packet is lost.

100% Security
PROFITAP® Copper TAPs are non-intrusive, have no IP address, and isolate monitoring devices from the network to ensure complete stealth and security at all times.

100% Fail-Safe
PROFITAP® Copper TAPs introduce no point of failure to the network and feature redundant powering. In case of complete power failure, our TAPs guarantee that the link remains operational by instantly switching to a fully passive mode.

Eco-friendly
At PROFITAP®, we believe it is the collective responsibility of the IT industry to keep our environment as clean as possible by using green products and contribute to reducing the global carbon footprint. We commit ourselves to producing premium quality and environment-friendly products. With the lowest power consumption on the market.

Compliance
All Copper TAPs are fully 802.3af, VoIP, and PoE compliant.

- Non-intrusive in-line monitoring
- Permanent network link guaranteed
- No packet loss
- No point of failure
- Fully 802.3af, VoIP, and PoE compliant
- Very low latency
- Lowest power consumption on the market

STANDARD LEADTIME: 1-3 working days ARO

- Non-intrusive in-line monitoring
- No packet loss, no point of failure
- Fail-safe monitoring
- Monitoring of all 7 OSI layers
- Supports link failure propagation (LFP)
- Monitor SFP+ ports support SR, LR, and Copper modules, and passive Twinax cables
- Fully 802.3af, VoIP, and PoE compliant
- Redundant powering

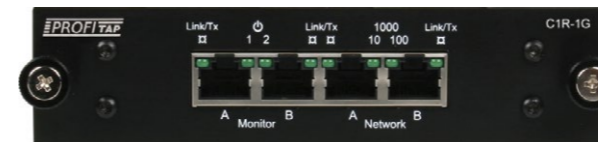**STANDARD LEADTIME:** 1-3 working days ARO

1G COPPER TAPS
COMPREHENSIVE AND FLAWLESS 10/100/1000 MONITORING
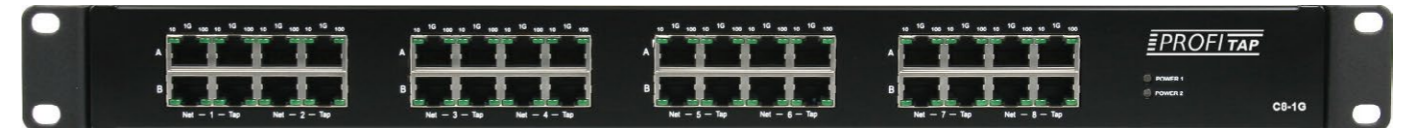
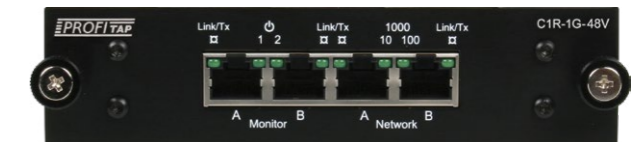### 8-LINK GIGABIT COPPER TAP
REF: C8-1G

The 8-Link Gigabit Copper TAP is a high density solution, providing 8 TAP links in a 1U rack space.
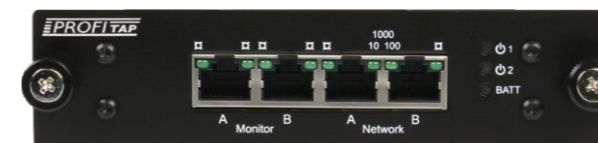

GIGABIT COPPER TAP
REF: C1R-1G

The Gigabit Copper TAP provides monitoring for 1 link. Redundant 12V powering, low power consumption (<4W).

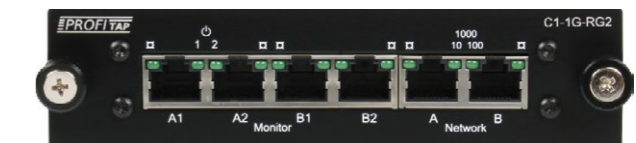### GIGABIT COPPER TAP WITH -48V POWERING
REF: C1R-1G-48V

Redundant -48V telecom powering.

GIGABIT COPPER TAP WITH BATTERY BACKUP
REF: C1R-1G-BAT
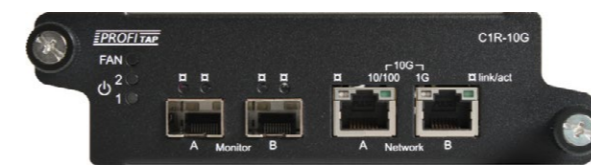
The battery keeps the link up during power transitions.

GIGABIT REPLICATOR TAP
REF: C1-1G-RG2

The Replicator TAP duplicates traffic from 1 link to 2 monitoring outputs.

10G COPPER TAP
THE FIRST 10G COPPER TAP ON THE MARKET

10GBASE-T TAP
REF: C1R-10G

Seamlessly duplicates full-duplex 10M/100M/1G/10G traffic at wire speed. The 10GBASE-T TAP provides monitoring devices with an accurate copy of the traffic with no impact on the network.

FIBER TAPS

100% Visibility
PROFITAP® Fiber TAPs monitor all 7 OSI layers, packets of all sizes and types, and low-level errors, making sure not a single packet is lost for 1G, 10G, 40G and 100G networks.

100% Security
PROFITAP® Fiber TAPs are non-intrusive, have no IP address, and isolate monitoring devices from the network to ensure complete stealth and security at all times.

100% Fail-Safe
PROFITAP® Fiber TAPs introduce no point of failure to the network because they are fully passive, so they require no additional powering. This way a permanent link is guaranteed.

10 Year Warranty
PROFITAP® Passive Fiber TAPs are covered by a 10-year warranty. Proof of the confidence we place in our products.

Extensive Testing Procedure
Every single one of our fiber components is extensively tested before and after assembly by our team of experts.

STANDARD:
- 40GBASE-SR4
- 100GBASE-SR4
- 100GBASE-SR10

FIBER TYPE:
- OM4 Multi-Mode 50/125µm

SPLIT RATIO:
- 50/50
- 60/40

STANDARD LEADTIME: 1-3 working days ARO

FIBER TYPE:
- MM 62.5/125 µm
- MM 50/125 µm
- SM 9/125 µm

SPEED:
- 1 Gbps
- 1-10 Gbps
- 1-100 Gbps

SPLIT RATIO:
- 50/50
- 60/40
- 70/30

For other split ratios, please contact us for availability.

STANDARD LEADTIME: 1-3 working days ARO

FIBER TYPE:
- MM 50/125 µm
- OM4 Multi-Mode fiber optic cabling

SPEED:
- 40 Gbps

SPLIT RATIO:
- 50/50

STANDARD LEADTIME: 1-3 working days ARO

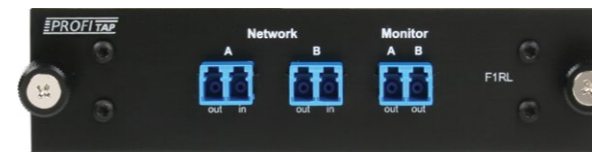# MTP FIBER OPTIC TAPS

1-Link MTP TAP   *Ref: F1M4*   2-Link MTP TAP   *Ref: F2M4*   4-Link MTP TAP   *Ref: F4MY*
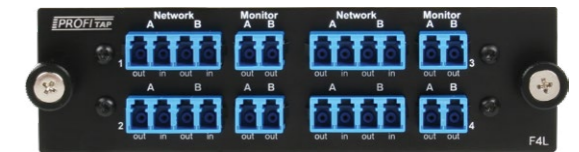
MTP TAPs allow the monitoring of 40GBASE-SR4, 100GBASE-SR4, or 100GBASE-SR10 connections (MM, OM4, 50/50). From 3 to 24 TAP links can fit in a 1U footprint. All MTP TAPs are manufactured with US Conec MTP Elite® connectors.
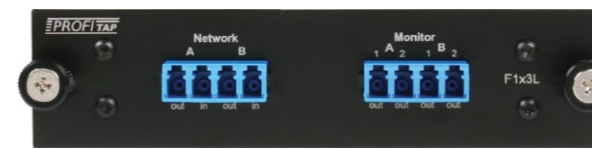
LC FIBER OPTIC TAPS

1-Link LC TAP   *Ref: F1RL*   4-Link LC TAP   *Ref: F4L*
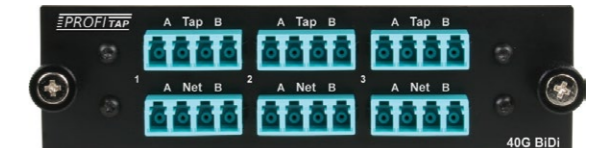
Dual Output LC TAP   *Ref: F1x3L*

LC Fiber Optic TAPs are available in Single-Mode (1310/1550nm 9/125µm) and Multi-Mode (850/1300nm 50µm and 62.5µm), with split ratios ranging from 50/50 to 80/20.

40G BiDi TAPS

1-Link 40G BiDi TAP   *Ref: F1R-40BD*   3-Link 40G BiDi TAP   *Ref: F3R-40BD*

40G BiDi Fiber Optic TAPs enable the monitoring of 40G bidirectional links. The Cisco 40G bidirectional standard uses 2 parallel multi-mode fiber strands to transmit the signal, rendering standard tapping systems inadequate. The 40G BiDi TAP transmits traffic to monitoring tools from all fiber optic signals, enabling total visibility over the network.

FIBER TAPS

100% Visibility

PROFITAP® Fiber TAPs monitor all 7 OSI layers, packets of all sizes and types, and low-level errors, making sure not a single packet is lost for 1G, 10G, 40G and 100G networks.

100% Security

PROFITAP® Fiber TAPs are non-intrusive, have no IP address, and isolate monitoring devices from the network to ensure complete stealth and security at all times.

100% Fail-Safe

PROFITAP® Fiber TAPs introduce no point of failure to the network because they are fully passive, so they require no additional powering. This way a permanent link is guaranteed.

10 Year Warranty

PROFITAP® Passive Fiber TAPs are covered by a 10-year warranty. Proof of the confidence we place in our products.

Extensive Testing Procedure

Every single one of our fiber components is extensively tested before and after assembly by our team of experts.

FIBER TYPE:
- MM 62.5/125 µm   **SPEED:** 1 Gbps
- MM 50/125 µm   1-10 Gbps
- SM 9/125 µm   1-100 Gbps

SPLIT RATIO:
- 50/50
- 60/40
- 70/30

STANDARD:
- 40GBASE-SR4
- 100GBASE-SR4
- 100GBASE-SR10

FIBER TYPE:
- OM4 Multi-Mode 50/125µm

SPLIT RATIO:
- 50/50

LC MODULE

FIBER TYPE:
- MM 62.5/125 µm   **SPEED:** 1 Gbps
- MM 50/125 µm   1-10 Gbps
- SM 9/125 µm   1-100 Gbps

SPLIT RATIO:
- 50/50
- 60/40
- 70/30

MTP MODULE

FIBER TYPE:
- 40GBASE-SR4
- 100GBASE-SR4
- 100GBASE-SR10

40G BiDi MODULE

FIBER TYPE:
- OM4 MM 50/125 µm   **SPEED:** 40 Gbps

SPLIT RATIO:
- 50/50

DiodeTAP MODULE

FIBER TYPE:
- SM 9/125 µm   **SPEED:** 1-100 Gbps

SPLIT RATIO:
- 50/50
- 60/40

HIGH-DENSITY LC FIBER OPTIC TAP

8-Link LC TAP
Ref: F8L

F8L is an ultra-thin, high-density 8-link LC TAP.
Up to three units can fit in a 1U rack space, enabling the monitoring of up to 24 LC links in 1U.

HIGH-DENSITY MTP FIBER OPTIC TAP

8-Link MTP TAP
Ref: F8MY

F8MY is an ultra-thin, high-density 8-link MTP TAP.
Up to three units can fit in a 1U rack space, enabling the monitoring of up to 24 MTP links in 1U.
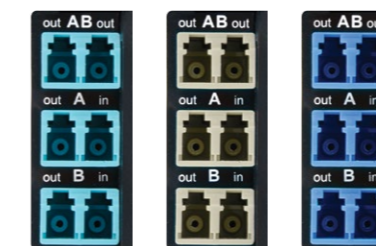All MTP TAPs are manufactured with US Conec MTP Elite® connectors.

MODULAR FIBER OPTIC TAP

Modular Chassis
Ref: AMC-1U

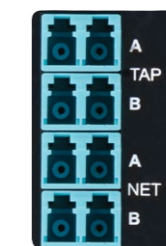The MOD-TAP is a high-density, modular fiber optic solution providing up to 24 in-line TAP modules in a 1U rack space.

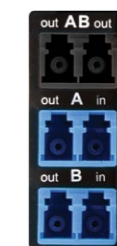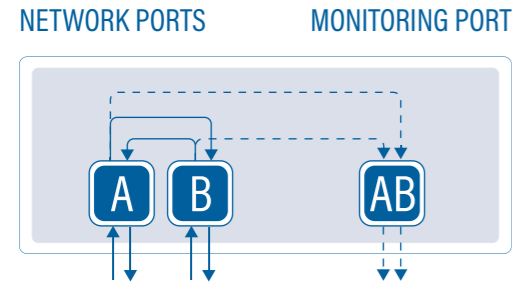**DiodeTAP Module:** By blocking light coming from the monitor ports, the DiodeTAP ensures total security and availability for monitored networks, while providing 100% visibility.

LC Module
Ref: F1L-MOD

MTP Module
Ref: F1M-MOD

40G BiDi Module
Ref: F1B-MOD

DiodeTAP Module
Ref: F1D-MOD

AGGREGATION TAPS

NETWORK PORTS   MONITORING PORT

A   B   AB

BYPASS TAPS

NETWORK PORTS   MONITORING PORTS

A   B   A   B

INLINE APPLIANCE

REGENERATION TAPS

NETWORK PORTS   MONITORING PORTS

A^OUT   A^IN   B^OUT   B^IN   A1   A2   B1   B2

- Direct link aggregation; no management, installation or driver required
- No bottlenecking; full line-rate performance with reduced delay and no dropped packets
- VLAN Tagging
- Non-intrusive to the network
- Redundant powering
- Fail-safe: in case of complete power failure, the In-Line Booster keeps the link up and switches to a fully passive mode, guaranteeing a fully operational network at all times
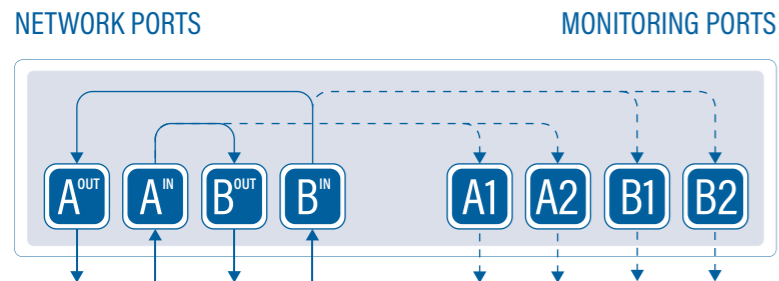
STANDARD LEADTIME: 1-3 working days ARO
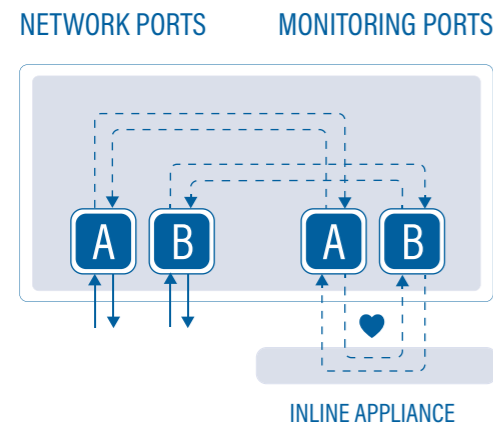
- Protects the network link availability
- Bidirectional and configurable heartbeats
- Supports link failure propagation (LFP)
- No point of failure
- Redundant powering
- Secure and completely invisible to the network

STANDARD LEADTIME: 1-3 working days ARO

FIBER TYPE: *SPEED:*
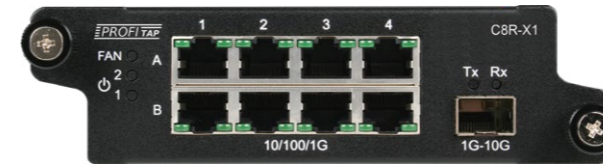- MM 50/125 µm   1-10 Gbps
- SM 9/125 µm   1-10 Gbps

SPLIT RATIO:
- 50/50
- 60/40

STANDARD LEADTIME: 1-3 working days ARO

BOOSTER

In-Line Model   *Ref: C8R-X1*

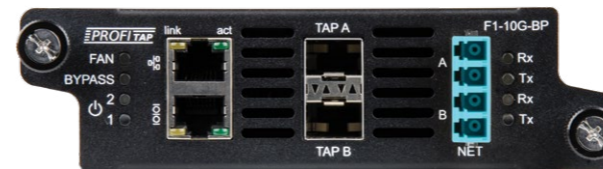Aggregation of 4 x RJ45 10/100/1G in-line links into 1 SFP+ 1G–10G output.

SPAN Model   *Ref: F8R-X1*
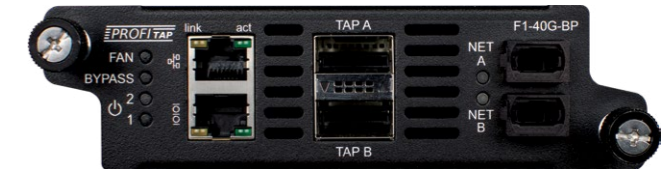
Aggregation of 8 x SFP SPAN 1G ports into 1 SFP+ 1G–10G output.

BYPASS TAPS

### 10G BYPASS TAP   *Ref: F1-10G-BP*

40G BYPASS TAP   *Ref: F1-40G-BP*

A Bypass TAP is a fail-safe solution that continuously checks the availability of in-line appliances, by sending heartbeats. If the tools' availability is compromised in any way, the TAP automatically switches to a bypass mode, maintaining the network link up until the issue is fixed.
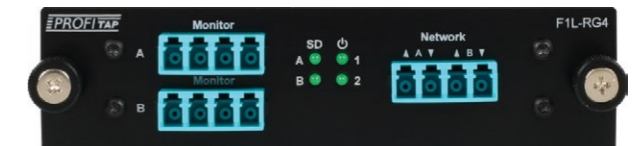
Similarly, the Bypass TAP also allows network engineers to manually bypass the in-line tool, to keep the network fully operational during maintenance and troubleshooting.

LC FIBER OPTIC REGENERATION TAPS
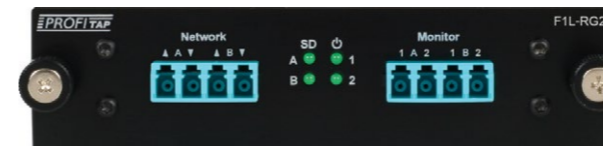
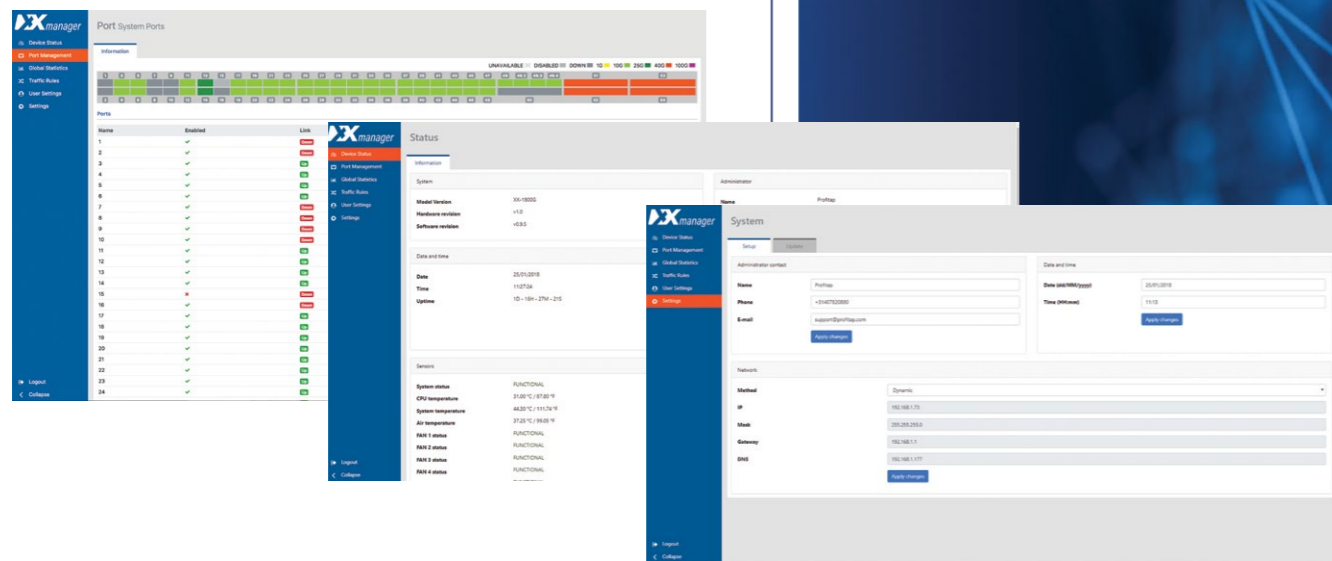### 2x Regeneration TAP   *Ref: F1L-RG2*

4x Regeneration TAP   *Ref: F1L-RG4*

Regeneration TAPs enable multiple monitoring systems to access a single LC fiber optic link. Regeneration TAPs only split the signal once, before regenerating it multiple times. This greatly mitigates the weakening of the optical signal that results from excessive splitting.

NETWORK PACKET BROKERS

Network Packet Brokers optimize the performance of network analysis and security tools by delivering filtered traffic of interest and help network engineers to quickly solve application performance bottlenecks and troubleshoot problems on the network.

○ Aggregation, replication, filtering, load balancing (any-to-any, any-to-many, many-to-many)

○ Local and remote management (CLI, GUI, SNMP, Syslog)

○ Redundant, hot-swappable PSUs and fan modules available in AC or DC version

○ Powerful filtering (layer 2–4, overlapping)

○ VLAN Tagging

○ Flexible role-based access

○ All models have a 1U footprint 10G, 25G, 40G, 100G traffic monitoring (fan-in/fan-out possible for more options)

○ XX-Manager remote management software included

○ TACACS+ authentication

XX Manager

XX-Manager is a web-based interface that allows the user to configure and monitor the behavior of a Profitap Network Packet Broker. This interface is based on a web application, allowing users to easily access to it from any OS or platform.

○ Full control over 1GbE, 10GbE, 25GbE, 40GbE and 100GbE network traffic for monitoring thanks to the intuitive GUI.

○ Multiple filter rules per port in any combination for various routing, filtering, duplication or replication and many more options can be configured by the GUI to allow instant adaptation to all kind of analysis.

○ Storage of multiple rule set configurations that allow instant rule set changes to ease meeting the current requirements.

All XX-SERIES Features plus:

○ Packet slicing

○ GTP IP filtering

○ GRE tunneling & de-tunneling

○ VXLAN de-tunneling

○ ERSPAN stripping

○ Timestamping

○ Deduplication

XX-SERIES

XX-32G DISTRIBUTED TAP
Ref: XX-32G

The XX-32G is an entry-level packet brokering solution. It provides 4 x 1G SFP ports + 2 x 10G SFP+ ports. It accepts modules for additional port options, and one passive TAP.
A portable model of the XX-32G distributed TAP is also available

Available Modules:

○ SFP SPAN module
○ Copper SPAN Module
○ In-line Copper Module
○ SPAN / In-line mix Copper module

XX-1800G
Ref: XX-1800G

The XX-1800G comes with two different port licenses:

○ Economy license: 24 x 25G SFP28 ports + 2 x 100G QSFP28 ports
○ Full ports license: 48 x 25G SFP28 ports + 6 x 100G QSFP28 ports

XX-2800G
Ref: XX-2800G

The XX-2800G comes with two different port licenses:

○ Economy license: 24 x 25G SFP28 ports + 8 x 100G QSFP28 ports
○ Full ports license: 48 x 25G SFP28 ports + 16 x 100G QSFP28 ports

XX-3200G
Ref: XX-3200G

The XX-3200G comes with two different port licenses:

○ Economy license: 16 x 100G QSFP28 ports
○ Full ports license: 32 x 100G QSFP28 ports

X2-SERIES

X2-3200G
Ref: X2-3200G

The X2-3200G comes with two different port licenses:

○ Economy license: 16 x 100G QSFP28 ports
○ Full ports license: 32 x 100G QSFP28 ports

PROFISHARK

THE LATEST IN ETHERNET FIELD TROUBLESHOOTING

ProfiShark is Profitap's family of powerful, compact Ethernet troubleshooters dedicated to straightforward network monitoring, capture, and analysis. Based on FPGA and USB 3.0, the ProfiShark series is a perfect blend of performance and flexibility.

A ProfiShark is equivalent to an aggregator tap and two NICs, all-in-one in a pocket-sized box, the only additional hardware required being a laptop or desktop PC with a free USB 3.0 port.

As Profitap listens to the needs of field engineers, the ProfiShark series is constantly evolving, and currently consists of the ProfiShark 100M, 1G, 1G+, 10G, and 10G+.

PROFISHARK 1G

PROFISHARK 10G

The ProfiShark 1G and 10G can capture any traffic, frames of any size and type, in-line or SPAN, for analysis and monitoring with Wireshark, or any major software analyzer. The included ProfiShark Manager software provides additional information, statistics, and configuration and capture options.

Long-term Traffic Capture

ProfiShark long-term capture solution is designed with flexibility in mind. Combined with a NAS for storage tailored to your specific needs, the long-term capture feature makes it easy to catch intermittent problems in the act.

PROFISHARK LONG-TERM
TRAFFIC CAPTURE SETUP

PROFISHARK OVERVIEW

- USB powered, no adapter required
- Lightweight and portable
- Hardware aggregation
- SPAN and In-Line modes
- 8 ns hardware timestamping
- Capture any type of frames
- Low level error and bandwidth monitoring
- Hardware filtering, deep packet inspection
- CRC error capture
- Packet slicing
- Non-intrusive, fail-safe monitoring
- Real time statistics
- Direct capture to disk
- Very low CPU usage
- Quick setup and easy to use
- Invisible to the network

COMPATIBILITY

- Wireshark
- ClearSight
- OmniPeek
- Packetyzer
- OptiView
- NetSpector
- NetDecoder
- Ethertest

And many more...

PROFISHARK 1G+

PROFISHARK 10G+

The ProfiShark 1G+ and 10G+'s GPS/GLONASS function can tag packets with accurate UTC timestamps. The ProfiShark 1G+ and 10G+ can also receive or generate a PPS signal, enabling accurate timestamp synchronization in various topologies.

The ProfiShark 100M is designed for the capture of 10/100M Ethernet traffic. It is the perfect tool for troubleshooting Real-Time Industrial Ethernet protocols. As an all-in-one network TAP in a pocket-sized box, this portable traffic capture device gives you all the flexibility and ease of use you require for the monitoring of industrial networks.

PROFISHARK 100M

PROFISIGHT

FLOW-BASED NETWORK ANALYZER FOR NETWORK TROUBLESHOOTING AND PERFORMANCE MONITORING

ProfiSight is a web-based network traffic monitoring application, giving a complete insight of the network and infrastructure, providing remote capturing, seven layers (OSI model) overview, flow-based analysis, APM, trend reports and much more.

It's designed and optimized for fast indexing and filtering large amounts of network traffic instantly, greatly optimizing your workflow and reducing time spent on troubleshooting.

ProfiSight provides visibility and diagnostics across your distributed and dynamic applications such as DNS, NETBIOS, NTP, FTP, SSH, SNMP, most of the conventional user applications and many others.
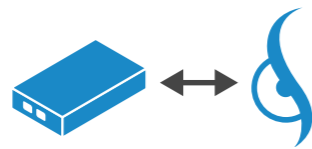
REAL-TIME ANALYTICS　　　　*FULL PROFISHARK INTEGRATION*　　　　*EASY DEPLOYMENT*

FEATURES

- **SIMPLE, FAST AND ACCURATE ISSUE IDENTIFICATION**
  Get immediate insight into network traffic and adjust your resources for optimal performance and quickly spot network issues.

- **REMOTE OFF-SITE DIAGNOSIS AND CAPTURE (PROFISHARK)**
  Connect to multiple ProfiShark capture points at once and combine the captured files into a single view for analysis.

- **REAL-TIME ANALYTICS**
  ProfiSight is designed for fast indexing of traffic capture and will help you improve your monitoring workflow and save valuable troubleshooting time.

- **CUSTOMIZE YOUR VIEW OF THE NETWORK (DASHBOARDS AND PANELS)**
  Besides a list of predefined dashboards, ProfiSight allows users to define and create dashboards to their own requirements.

- **USE THE POWER OF TRAFFIC CAPTURE WITH PROFISHARK**
  Good analysis starts with a reliable capture of the network traffic. ProfiShark gives you exactly that with line-rate and fail-safe performance.
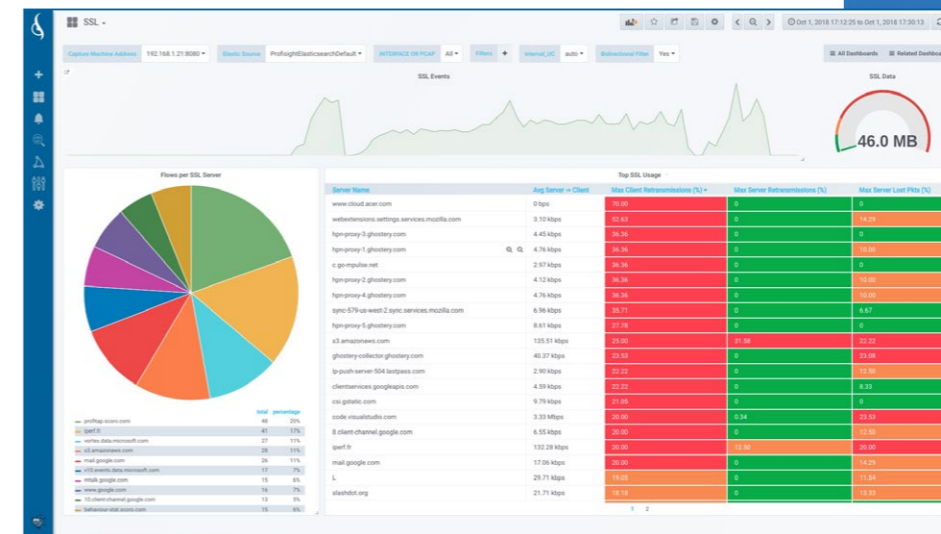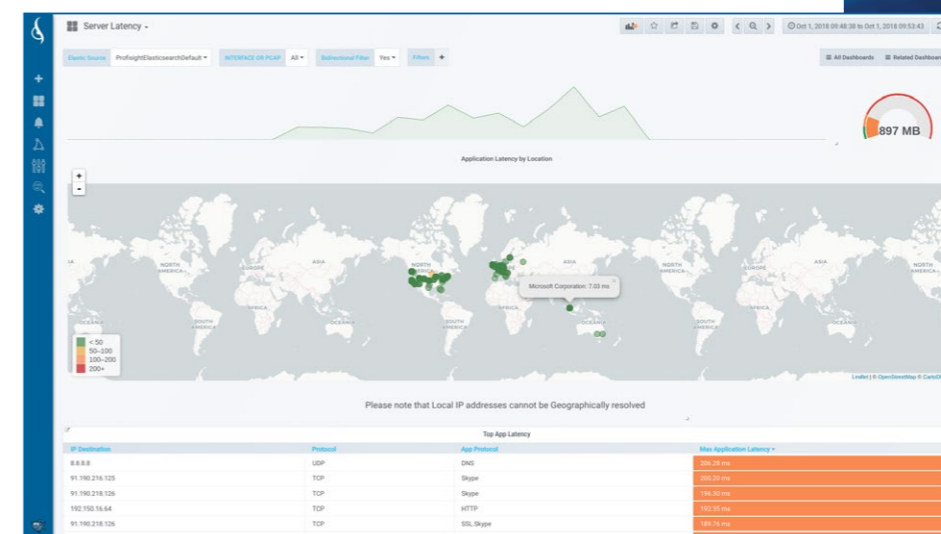
Application Performance Monitoring

Get an overview, or filter on your preferred application.
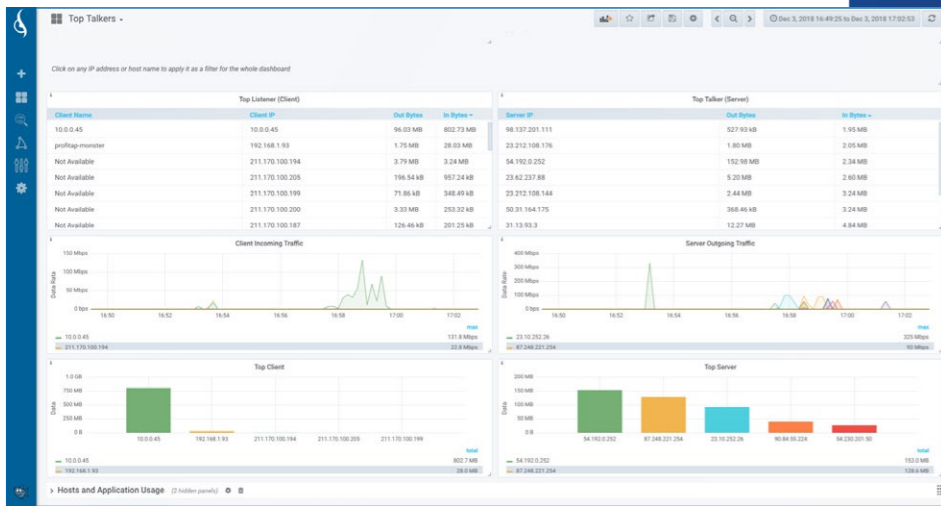*I.e., HTTP, SSL or DNS Dashboards.*
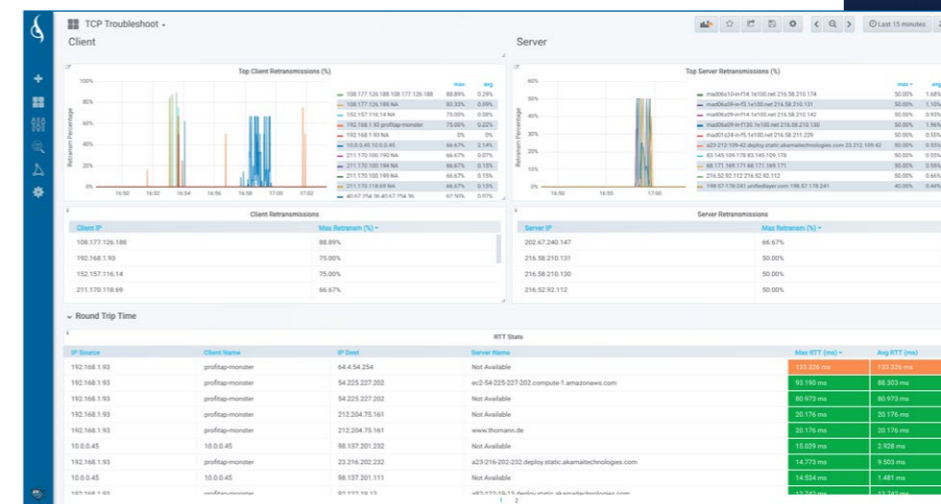
TCP Troubleshooting

Pinpoint the root cause of your problem with TCP Dashboards, such as retransmissions, lost packets, server congestion, ports usage, and more.
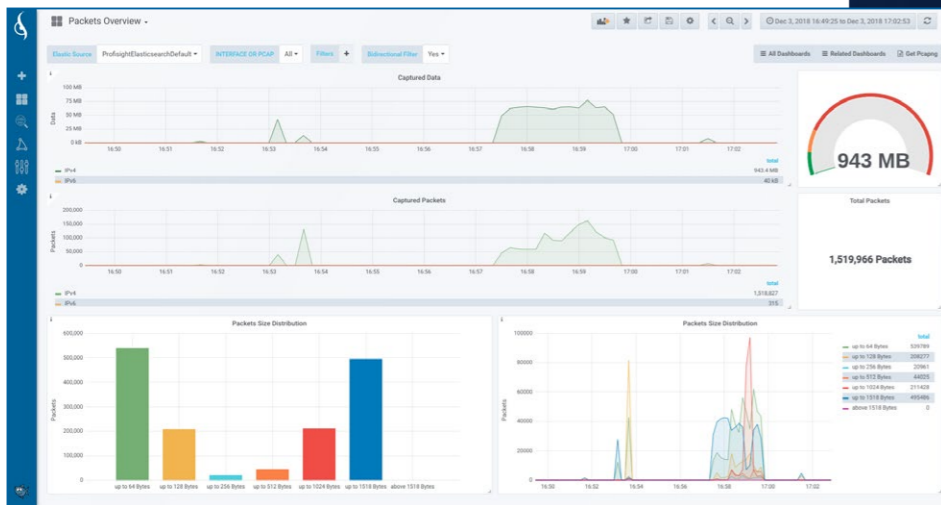
Latency Detection

Application latency per server, including GeoIP resolution in map.

Bandwidth Usage

Bandwidth usage per host, flow, port. Microburst detection. Goodput metrics. Packet and traffic statistics.

Top Talkers

Top client / servers in your network, sorted by packets, bandwidth consumption or protocol.

INTEGRATION WITH PROFISHARK

ProfiSight extracts and analyzes metadata directly from PCAP files. When combined with the capture performance of the ProfiShark portable capture devices, ProfiSight offers the best of two worlds: quick overview with metadata and full packet capture.

With ever increasing link speeds, ProfiSight helps you analyze large amounts of data, allowing you to quickly start your analysis from a bird's-eye view, and to drill down to packet-level details whenever you need more information.

CAPABILITIES

- Bandwidth utilization, microbursts
- Statistics per host, IP and per L4 and L7 Protocols
- TCP indicators (lost packets, retransmissions, zero windowing, etc)
- Application latency metrics, per server and location
- Application-specific dashboards
- Flow metrics per interface
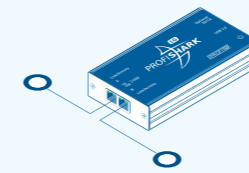
NETWORK ACCESS	FLOW-BASED TRAFFIC ANALYSIS	PACKET-LEVEL TRAFFIC ANALYSIS
ProfiShark Integration	Fast Indexing	Wireshark Compatible
100% Visibility	Bird's-Eye View	Deep Packet Analysis
Line-Rate Capture	Quickly Spot Issues	
	Real-Time Visibility	

SYSTEM REQUIREMENTS

Hardware	Recommended: Intel Quad 3.0 GHz, 8GB Ram or more — Minimum: Intel Core Duo 2.4 GHz, 8 GB Ram
Network	Fast Ethernet Gigabit network adapter
Disk Space	350 MB Installation 5 GB minimum disk space required for first captures Long-term captures limited by disk space
Devices	Up to 6 ProfiShark devices can be used to capture simultaneously
OS	Windows 10 (64-bit) Linux Ubuntu Family (64-bit)

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PROFI TAP

Profitap develops and manufactures high-quality network monitoring solutions. Our high-density data center TAPs and field service troubleshooters provide complete, comprehensive visibility and access to your network 24-7-365.

Profitap's non-intrusive and fail-safe design ensures our TAPs provide the utmost security for networks and monitoring appliances.

We have developed our products to be market leading in the industry where the definition of excellence is constantly being challenged. With more than 1,000 clients from 55 countries, Profitap has become an integral solution for major businesses, many of which are Fortune 500 companies.

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