

Cubro EXA8

PRODUCT OVERVIEW



The Cubro EXA8 is a new generation of Network Packet Broker (switch-like device) based on a newly designed ASIC and Oction CPU. The EXA8 provides maximum flexibility because it combines the classic ASIC based NPB with a high-performance CPU which enables it to run powerful applications on it.

The EXA8 is an affordable high performance universal open network appliance with a unique design and flexible feature set. Cubro EXA8 is the only network visibility probe of its kind in the market due to its compact size, in built-TAP and powerful CPU at a low price.

Currently, Cubro offers three different software packages for the EXA8 platform. The EXA8 can function as an Aggregator, Capture Probe or a Sessionmaster depending on the software installed.

Network Packet Broker (NPB) At a glance

Definition

A network packet broker (NPB) is a tool that receives data from number of network links; duplicates, aggregates and filters that data for the monitoring tools.

Advantages of EXA8

- Very portable
- Graphical user interface (GUI)
- Integrated Copper TAP
- Aggregation
- Capturing on the device (depends on the software)
- Support of any kind of SFP+ (also 10 Gbit BASE-T)
- No additional port licensing fees
- 2-year warranty period

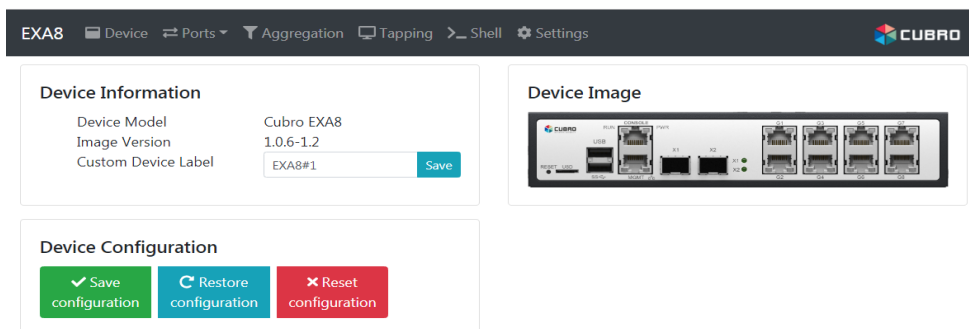
General Specifications:

- Provides network visibility by tapping and aggregating the traffic
- Micro SD card slot
- Internal 1TB SSD
- 16 GB Memory
- Oction ARM CPU for maximum performance
- Fail safe Copper TAP included
- More ports than a normal aggregation TAP
- IPv4 and IPv6 support included
- 2 x USB 3.0 ports

DIFFERENT SOFTWARE VERSIONS

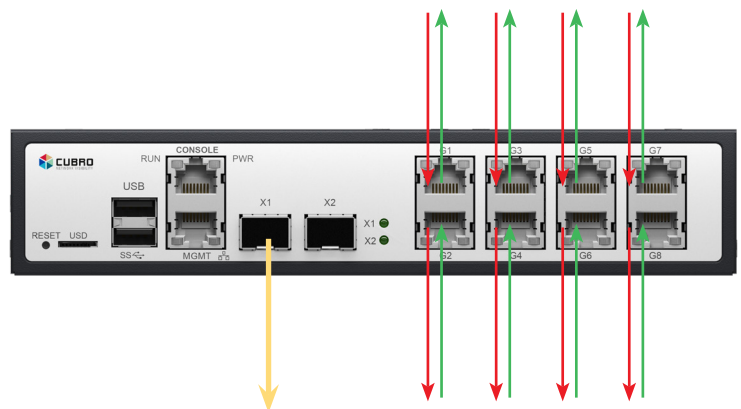
EXA8 Aggregator

The EXA8 Aggregator is a simple to use Copper Aggregator. It has built-in fail safe TAP for up to Gbit. This version of the EXA8 can be configured via WebUI. It also has VLAN tagging feature which can be enabled. The feature tags traffic at the input for later analysis.



Aggregation

The EXA8 is connected to several devices, for instance span ports. The traffic from various sources can be aggregated to one stream for a monitoring device. For an easier analysis, it is possible to push tags on each input port afterwards.



EXA8 Capture

The EXA8 Probe has all features like Aggregator plus additional features.

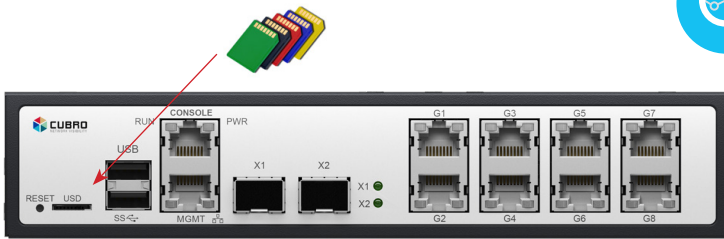
- **Capture:** EXA8 Probe has two different capture abilities. The instant capture starts capturing to a pcap instantly. The rolling capture function captures all the incoming traffic. The latter is running continuously and all the relevant time slots can be exported to pcap later.
- **Analysis:** This version comes with pre-installed Web Shark to provide easy access to the data of the stored Pcaps. This saves time because there is no need to download Pcap from the unit to view.

The EXA8 Probe also has a pre-installed Ntopng tool for analysing traffic flows and top talkers. The WebUI provides a graphical overview of the incoming traffic.

- **DPI:** This is an add on to the EXA8 Probe version and can be purchased as an yearly subscription. The DPI feature can identify over 2000 different applications. DPI filtering can block unwanted applications. This application can also be used by network administrators to reduce the bandwidth consumed by non-business critical network traffic.



1 Gbit Copper Capturing



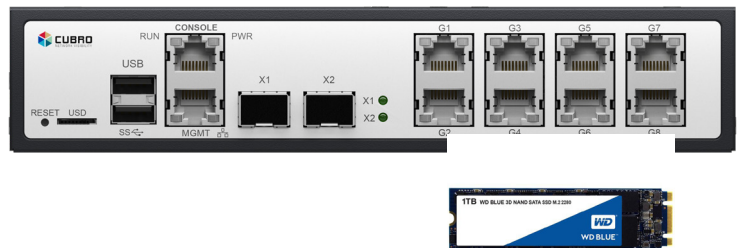
The EXA8 is connected directly in a live copper link 10/100/1000. With the built-in TAP the unit is completely transparent for the network. It is possible to capture the traffic directly on the EXA8 via the capture function of the unit.



Traffic Capturing to SSD - Aggregate and Capture to SSD

The capturing of traffic is done via TShark. TShark is the command line version of Wireshark, so Wireshark filters are possible.

Performance up to 2.5 Gbit.



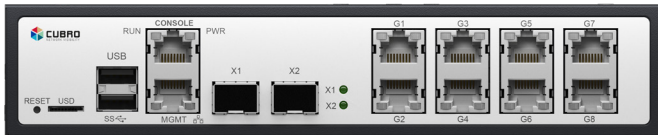
EXA8 Sessionmaster

The EXA8 Sessionmaster has all the advanced features of a network packet broker packaged in a small form factor. This version of EXA8 can perform filtering up to L4 and load balancing. Other higher layer features include VxLAN, GRE Termination, Active Tunnel Endpoint, Packet Slicing and Offset Stripping besides other features of an advanced NPB.

PRODUCT CAPABILITIES / FEATURES

Link/Port Aggregation	Aggregation of up to 8 ports links or 4 links 10/100/1000 Mbit to 2 x 10 Gbit to a single output port.
Jumbo Frame Support	The Packetmaster supports jumbo Ethernet frames with a size of up to 9000 bytes.
Ports	8 x 10/100/1000 Base-T 2 x SPF+ 10 Gbit (2 X 10 Gbit Base_T) 1 x 10/100/1000 Base-T (Management) 1 x RS232 Console
Configuration / Communication	Web GUI SSH Text Menu CLI
Capture Performance	Up to 2.5 Gbit/s for 1518-byte frame
Aggregation latency	Average 700 ns for 64-byte frames
MTBF	198,185 hours

TECHNICAL DATA / SPECIFICATIONS



Operating specifications:

Operating Temperature: 0°C to 40°C
 Storage Temperature: -10°C to 70°C
 Relative Humidity: 10% min, 95% max (non-condensing)

Mechanical specifications:

Dimension (WxDxH): 220 x 330 x 44 mm
 Weight: 2,95 kg
 Airflow: Front-back

Electrical specifications:

Input Power: 1 x 100 - 250V AC
 Maximum Power Consumption: 25W

Certifications:

Fully RoHS compliant CE compliant
 Safety - UL60950-1/CSAC22.260950-1-07/IEC60950-1(2005)EN 60950-1 (2006)

INPUTS*

8 x 10/100/1000 full duplex Base-T
 2 x 10 Gbps full duplex SFP+ Ports for any kind of SFP+
 *Each port can be input or/and output depending on the application and configuration

OUTPUTS*

8 x 10/100/1000 full duplex Base-T
 2 x 10 Gbps full duplex SFP+ Ports for any kind of SFP+
 *Each port can be input or/and output depending on the application and configuration

PERFORMANCE

Performance up to 20 G performance depending on the application
 Boot time from power on to working 120 sec
 Packet delay through processing less than 700 ns

MANAGEMENT

Management Port: (1) RJ45 10/100 Mbit Configuration (CLI) Port: (1) RS-232 DB9 USB

INDICATORS

(All ports) Link LEDs (All ports) Activity LEDs

ADDITIONAL INFORMATION

The EXA8 Series come with the new Web GUI. It has a graphical configuration interface (GUI) instead of the traditional command line interface (CLI) which makes it easier for customers to set up and use the tools.

- Compatible with IE version 8 onwards
- Java or Flash not required
- Support for mobile devices

App and Scripting

The EXA8 comes with Rest-API to allow the integration to the 3rd party applications. Since the unit is running a Ubuntu Linux it is also possible to add various kinds of software.

The EXA8 can produce flow records from the attached traffic. The flows can be used to produce any kind of statistics.

The flows are sampled and the sampling rate depends on the load. The flows are sFlow standard and can be received with all sFlow collectors. The two types of collectors available are – commercial and free flow.

ORDERING INFORMATION

Part Number	Description
CUB.EXA8	EXA8 Appliance
CUB.EXA8-SW-A	EXA8 Aggregation License
CUB.EXA8-SW-AC	EXA8 Aggregation and Capture License
CUB.EXA8-SW-ACD	EXA8 Aggregation, Capture and 1 year DPI License
CUB.EXA8-SW-SM	EXA8 Sessionmaster License
CUB.EXA8-SW-SMD	EXA8 Sessionmaster and 1 year DPI License