

Cubro Sessionmaster EXA8

PRODUCT OVERVIEW



The Cubro Sessionmaster EXA8 is a new generation of Network Packet Broker (switch-like device) based on a newly designed ASIC and Octeon CPU. The EXA8 provides maximum flexibility because it combines the classis 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.

The unit is perfect for link aggregation because of the built-in Copper TAP. The EXA8 come with a pre-installed Tshark on it which allows it to capture the traffic and store it on the built-in 1TB SSD storage.

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
- Support of any kind of SFP and SFP+ (also 10 Gbit BASE-T)
- No additional port licensing fees or software feature licensing. All features and applications included in the unit price.
- 2-year warranty period

Functions / Benefits:

- Provides network visibility by tapping and aggregating the traffic
- VLAN push function
- Internal 1TB SSD
- 16 GB Memory
- Octeon ARM CPU for maximum performance
- Fail save Copper TAP included
- More ports than a normal Aggregation TAP
- IPv4 and IPv6 support included

EXA8 Device Ports Aggregation Tapping Shell Settings

Device Information

Device Model: Cubro EXA8
 Image Version: 1.0.6-1.2
 Custom Device Label: Save

Device Image



Device Configuration

✔ Save configuration
↺ Restore configuration
✖ Reset configuration

- Captures 100% of all data captured for real-time analysis as well as historical playback – excellent for troubleshooting
- Internal 1TB SSD
- Captures on USB or SSD
- Capable of performing several other advanced applications like a Sessionmaster
- Allows to run 3rd party applications

PRODUCT CAPABILITIES / FEATURES

Link/Port Aggregation	Aggregation of up to 8 ports links or 4 links 10/100/1000 Mbit to 2 x 1/10 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+ 1/10 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 230 V 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 1/10 Gbps full duplex SFP/SFP+ Ports for any kind of SFP/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 1/10 Gbps full duplex SFP/SFP+ Ports for any kind of SFP/SFP+
 *Each port can be input or/and output depending on the application and configuration

PERFORMANCE

Performance up to 20 Gbps
 32 million packets/sec
 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

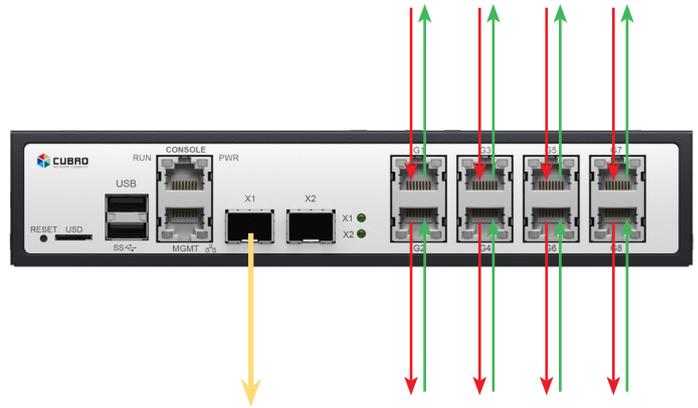
INDICATORS

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

APPLICATIONS / SOLUTIONS

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.



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.



3rd Party Software

The integrated SSD is used to capture filtered or full data to the disc.

Download to PC via USB 3.0 is possible.

3rd party applications are possible to run with a maximum capturing performance of 2.5 Gbit.



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, see picture.

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.SM-EXA8	Sessionmaster EXA8, 8x1G and 2 x 10 G , AC power

EXA8 is also available in two other versions:

EXA8 LI (Lawful Intercept)

EXA8 SIP Analyser and SIP Capture



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