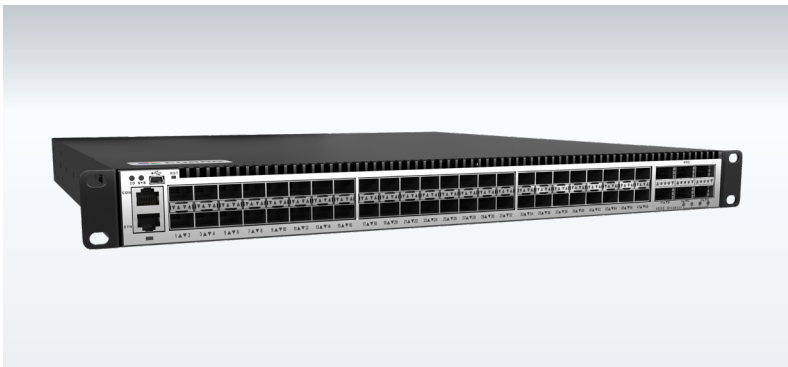


Cubro Packetmaster EX484-3

PRODUCT OVERVIEW



The Packetmaster EX484-3 is a high performance network packet broker that aggregates, filters, duplicates, load balances network traffic to security, monitoring and management tools based on 4500 possible rules. The Packetmaster EX484-3 supports OSI Layer 2, Layer 3 and Layer 4 header modifications including stripping, adding, and modifying VLAN tags, MPLS labels, MAC addresses, IP addresses and Port numbers.

Functions / Benefits:

- Finite Rule Life: Rules can be set with a timeout period where the rule will be removed automatically after a set period of time or a set period without traffic activity. Rules can be dynamically created via the REST API.
- Generate sFLOWS CDRs: The EX484-3 is able to generate standard-conform sFlow information of the incoming traffic.
- Easy to configure: Via Web GUI (HTTPS supported)
- GRE / VXLAN Tunnel support: The Packetmaster EX484-3, like all Packetmaster Series NPBs, can function as a GRE / VXLAN tunnel endpoint.
- Load balancing: L2 / L3 / L4 hash-based, session aware load balancing, up to 15 load balancing groups
- Cubro Vitrum Management Suite: EX484-3 is fully compatible with Cubro Vitrum, a centralized management platform for all Cubro network visibility solutions.

Network Packet Broker (NPB) At a glance

Definition

A Network Packet Broker (NPB) is a switch-like device purpose-built to receive traffic from a variety of network sources (live link, TAPs, SPANs, mirror ports) and to filter, duplicate, and/or aggregate that traffic to monitoring and security tools.

Advantages of EX484-3

- Filters and load-balances traffic from a 10 Gbps or 40 Gbps link to multiple 1 Gbps monitoring tools
- Aggregates multiple 1 Gbps links to 10 or 40 Gbps monitoring tools
- 48 x 1/10 Gbps (SFP/SFP+) and 6 x 40 Gbps (QSFP)
- Supports traffic modifications up to layer 4 as well as changing, removing and adding VLAN, MPLS, VXLAN, NVGRE, GRE, GENEVE tags/tunnels
- Up to 4500 parallel rules
- IPv6 support
- No additional port licensing fees or software feature licensing. All features and applications included in the unit price.
- 2-year warranty period

Extended Functions:

The management host controller of every Packetmaster EX unit runs a minimal Debian Linux OS as the operating system. This Linux OS natively supports core Unix shell commands and utilities, shell scripting, Python 2.7, and the VI text editor. This allows the user to create and run custom scripts and command sets to extend the functionality of the Packetmaster EX for their environment. Cubro can also create custom application for the customers specific needs as well.

Examples:



A Perl script collects counters and writes these counters in an external SQL Database for later analysis.



A Python script reads files from a server and creates filters based on this data.



A Python script dynamically changes filters based on link load data collected from another Packetmaster.



A shell script pings different devices and changes filter rules based on ping response.

PRODUCT CAPABILITIES / FEATURES

Link/Port Aggregation	Aggregation many to any, and any to many at all link speeds
40 Gbps traffic demultiplexer	The traffic can be easily demultiplexed into 48 low traffic 10 Gbps links to monitor highly loaded 40 Gbps links.
Support of IPv4 and IPv6	Yes
Packet slicing in line speed	Configurable 64-144 byte
Jumbo Frame Support	The Packetmaster supports jumbo Ethernet frames with a size of up to 16000 bytes
Ports	48 x SFP/SFP+ 1 or 10 Gbps 6 x QSFP 40 Gbps 1 x 10/100/1000 Base-T (Management) 1 x RS232 Console 1 x USB
Configuration / Communication	Web GUI, CLI via SSH or Telnet, REST API, SNMP, RADIUS
Bandwidth	1440 Gbps backplane 100 % throughput without any packet loss
Aggregation latency	Average < 1 μ s for 64-byte frames
MTBF	198.185 hours
Different Power Versions	100-240 V AC dual power supply (DC power module available)

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 (W X D X H): 484 X 490 X 43 mm
 Weight: 9,4 kg
 Airflow: Front-back

Electrical specifications:

AC:
 Input Power: 100-240V, 2A, 47-63 Hz
 Maximum Power Consumption: 300W
 DC:
 Input 36-75V, 16A
 Maximum Power Consumption: 320W

Certifications:

Fully RoHS compliant
 CE compliant
 Safety - UL 60950-1 / CSA C22.2 60950-1-07 / IEC 60950-1 (2005) EN 60950-1 (2006)

INPUTS*

48 x 1 Gbps / 10 Gbps full duplex SFP Ports for any kind of SFP/SFP+
 6 x 40 Gbps full duplex QSFP Ports for any kind of QSFP/QSFP+

- * Each port can be input and / or output depending on the application and configuration
- *All QSFP ports support breakout cables to 4 x 1/10G interfaces

OUTPUTS*

48 x 1 Gbps / 10 Gbps full duplex SFP Ports for any kind of SFP/SFP+
 6 x 40 Gbps full duplex QSFP Ports for any kind of QSFP/QSFP+

- * Each port can be input and / or output depending on the application and configuration
- *All QSFP ports support breakout cables to 4 x 1/10G interfaces

PERFORMANCE

Performance up to 1920 Gbps
 Non blocking design
 Boot time from power on to working 180 sec.
 Packet delay through processing less than 1 μs

MANAGEMENT

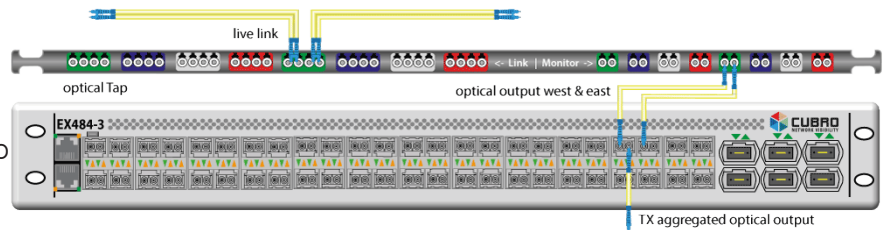
Management Port: (1) RJ45
 10/100/1000 Mbit Configuration (CLI) Port: (1) RS-232 DB9
 USB for software update

APPLICATIONS / SOLUTIONS



Aggregation

Traffic aggregation from many input ports to one or many output ports. This also works with different link speeds of up to 40 Gbps.

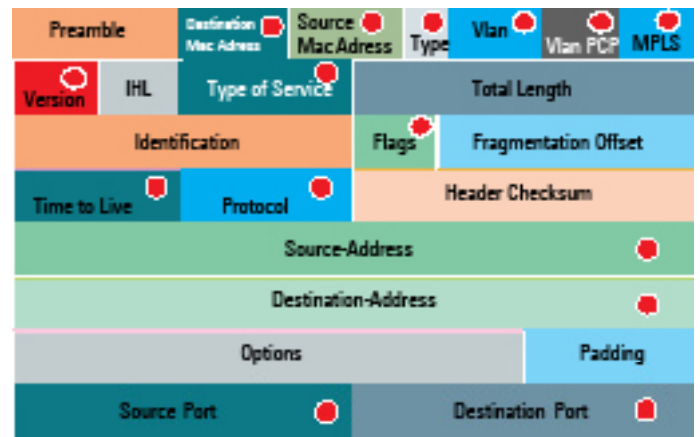


Filtering

4500 flow rules (filters) can be set in the unit. The fields marked with a red dot can be used as a match for a packet, stand-alone, combined or with wild cards. For IP Src and IP Dst supernets are supported.

Available actions after a positive match include:

- Output: Forward the traffic to one or more ports (even the input port)
- Drop: Drop (discard) the traffic
- Modify: Modify header information such as VLAN tag, MPLS label, source MAC, destination MAC, source IP, destination IP, source Port, and destination Port.
- Add VLAN tag: The Packetmaster EX units can add or append VLAN tags to the filtered traffic to separate or identify it after aggregation/output. (Up to six VLAN tags are possible).
- Strip VLAN: Remove VLAN tag(s) (Q in Q support).
- Add MPLS: Add an MPLS Tag to a matched packet
- Strip MPLS: Remove an MPLS Tag from a matched packet
- Rule Priority/Rule Stacking: The ability to prioritize filtering rules allows for very complex filtering possibilities.



ORDERING INFORMATION

Part Number	Description
CUB.PM-EX484-3	Packetmaster EX484-3, 48x10G and 6x40G Network Packet Broker
CUB.PM-DC-C	DC Power supply module for Cubro Packetmaster EX20400/48400/484-3
CUB.RR19-1U	Universal Rackrail Kit for 1U 19" units (Packet/Sessionmaster)

Product Components:

- Packetmaster EX484-3
- AC, DC power modules available
- Europe/US/UK power cords available



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