Aster A-648
Network Packet Broker
Technical Data Sheet

Microtel innovation

Product Description

1/10/25/40/100 Gbps Packet Broker

Aster A-648 Packet Broker provides a **comprehensive Network Packet Brokering for all link speeds from 1 Gbps to 100 Gbps.**

Designed with a 1U box, Aster A-648 provides 16x1/10/25G, 32x10/25G and 8x40/100G ports, so making possible to interface network traffic with a single device, **no matter if 1Gbps, 10Gbps, 25Gbps, 40Gbps or 100Gbps interfaces are used,** and to **aggregate, filter and load balance** it towards the monitoring tools at different speeds.

A-648 implements **Advanced Packet Manipulation (APM) functionalities, like Packet Slicing, Header Stripping and Tunnel Encapsulation/ Decapsulation capabilities,** to improve monitoring tools efficiency and send and get data to/from NFV infrastructure.

Key features

- **Input/output ports:**

  * **1/10/25/40/100 Gbps** visibility in 1U form factor

  * Available ports: 16X1/10/25Gbps plus 32x10/25Gbps plus 8x40/100Gbps

  * All cages are enabled, no need for additional licences

- **Filtering, Aggregation and Load Balancing:**

  * Filtering based on several inner/outer L2-L4 parameters

  * Selective aggregation: Any to Any, Many to One, One to Many

  * Inner/Outer IP address and L4 port Load Balancing

  * Support Jumbo Packets

- **L2GRE, L3GRE, VXLAN Tunnel Start/Termination**

- **Advanced Packet Manipulation (APM) capabilities**

  * Packet slicing

  * MPLS, GTP-U, L2GRE, VLAN, VNTag, VXLAN Header Stripping

  * VLAN ID replacement

  * VLAN, MPLS Tag adding and removal
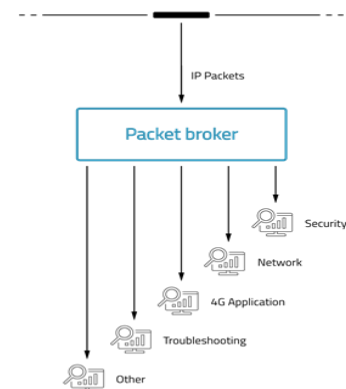
- **Management**:

  * CLI and GUI for local and remote management

  * Real time statistics, counters and SNMP alarms

Aster A-648

Highlights

- Possibility to interface all link speed with one only device: **1/10/25/40/100 Gbps ports are available in 1U space.**

- By doing header stripping on a variety of tunnels, **allows monitoring tools to process traffic flows that they otherwise could not recognize** because of an unreadable header type

- **Feed the monitoring tools with the right data,** by filtering the network traffic up to L4, using **both inner and outer parameters**

- **Ready for NFV and 5G infrastructure monitoring:** thanks to its advanced tunnel capabilities it can get data from and send data to the virtual infrastructure

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Aster A-648 — Technical Specifications

Input/Output Capabilities	
Number of physical ports	Available ports: 16X1/10/25Gbps plus 32x10/25Gbps plus 8x40/100Gbps The 40/100Gbps ports can be equipped with QSFP28 transceivers (each one can to be used as 1x100Gbps or 4X25Gbps) or QSFP+ transceivers (each one can to be used as 1x40Gbps or 4X10Gbps).
Performances	Switching Capacity: 2.0 Tbps

Management	
Management ports	1x 1G RJ45 (10/100/1000)
Protocols	IPv4, IPv6, SNMPv2, SNMPv3, HTTPS, TACACS+, Syslog
Statistics and Alarms	Real time statistics and counters for each input output ports SNMP Traps alarms

Aster A-648 — Ordering Information

A-648-4808/AC	NPB: 1RU Chassis, 48x25Gb + 8x100Gb ports (max 16X1G ports, 80x10/25G, 8x40/100G). All ports enabled (tranceivers not included). Advanced Packet Manipulation features included. Redundant AC power supply
A-648-4808/DC	NPB: 1RU Chassis, 48x25Gb + 8x100Gb ports (max 16X1G ports, 80x10/25G, 8x40/100G). All ports enabled (tranceivers not included). Advanced Packet Manipulation features included. Redundant DC power supply

Transceivers		Transceivers	
SFP-GT/J	1000 Base T Copper with RJ-45 connector	**SFP-GL/L-23**	1000 Base LX (1310nm) Single-Mode with LC connector
SFP-GM/J3	10/100/1000 Base T Copper (3 Speed) with RJ-45 connector	**SFP-GW/L-24**	1000 Base ZX (1550nm) Single-Mode with LC connector
SFP+-HR/L-11	10 GE Base-SR (850 nm) Multi-Mode with LC connector	**SFP+-HP/L-14**	10 GE Base-LR (1310 nm) Single-Mode with LC connector
SFP-GS/L-24	1000 Base SX (850nm) Multi-Mode with LC connector	**SFP+-HQ/L-15**	10 GE Base-ER (1550nm) Single-Mode with LC connector
SFP-FS/L-30	100 Base-FX (1310 nm) Multi-Mode with LC connector	**QSFP+-LR/M-4**	QSFP+ LR4 - 40G Parallel Fiber -Single mode (1310nm) with MPO/MTP connector
QSFP+-SR/M-4	QSFP+ SR4 - 40G Parallel Fiber - Multimode (850nm) with MPO/MTP connector	**QSFP+-LR/L-4**	QSFP+ LR4 - 40G CWDM Single-Mode (1310nm) with LC connector
QSFP28-SR/M-4	QSFP28 for 100G Parallel Fiber - Multimode (850nm) with MPO/MTP connector	**QSFP28-LR4/L**	QSFP28 for 100G LAN-WDM Single mode (1310nm) with LC connector
		QSFP28-PSM4/M-4	QSFP28 for 100G Parallel Fiber- Single mode (1310nm) with MPO/MTP connector

Operating	Power	Dimensions	Regulatory
• Operating temperature: 0°C to 40°C (32°F to 104°F) • Operating Humidity: 5% to 95% non-condensing	• Redundant, load sharing, hot-swappable AC • Max power consumption: 490W (AC) • Field serviceable cooling	• Chassis 1U, 19" rack mount, (WxDxH): 460 mm x 438 mm x 43 mm (18.11 in x 17,24 in x 1.69 in) • Weight 8,49 kg (18,7 lbs)	• CE, FCC, ROHS compliant

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