Aster A-640
Network Packet Broker

Technical Data Sheet

Microtel innovation

Product Description

10/25/40/100 Gbps Packet Broker

Aster A-640 Packet Broker provides a **comprehensive Network Packet Brokering for 10/25/40/100 Gbps** links.

Designed with a 1U box, Aster A-640 provides the capability to interface network traffic with a single device, **no matter if 10/25/40/100 Gbps interfaces are used,** and to **aggregate, filter and load balance** towards the monitoring tools at different speeds.

A-640 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.
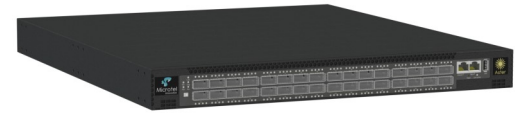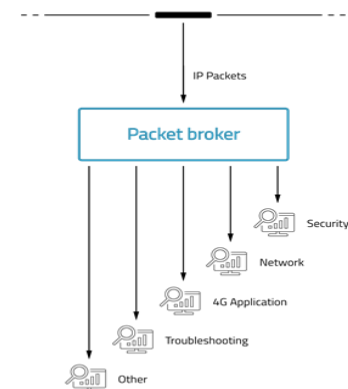
Aster A-640

Key features

- **Input/output ports:**

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

  * 32 cages are available, each one to be used as 1x100Gbps 1x40Gbps, 4X25Gbps or 4x10Gbps, as needed

  * All cages are enabled, no need for additional licences

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

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

  * UDF (User Defined Filter)

  * 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

Highlights

- Integrate the Packet Brokers Capture Fabric with your virtual network infrastructure, **using Tunnel Encapsulation/ Decapsulation capabilities to get data from NFV and to send data to virtual Probes**

- **Improve tool efficiency** through packet slicing and header stripping functionalities

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

- **High density solution with low power consumption:** up to 32X100G ports in 1U space, with maximum power consumption limited to 550W

Microtel Innovation S.r.l.
Via Armentera 8,
38051 Borgo Valsugana TN (Italy)

Microtel Innovation is a
Cinetix Group Company

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www.microtelinnovation.com
info@microtelinnovation.com

Aster A-640 — Technical Specifications

Input/Output Capabilities	
Number of physical ports	32 cages are available. They 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: 6.4 Tbps
Management	
Management ports	10/100/1000BASE-T port, RJ45 connector
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-640 — Ordering Information

A-640-AC	Aster A-640, 1U, 19" rack mount, with 32 in/out cages. Each port can be used as 4X10G, 4X25G, 1X40G or 1X100G. (QSFP+/QSFP28 not included), All ports enabled. 220V AC Redundant Power Supply.
A-640-DC	Aster A-640, 1U, 19" rack mount, with 32 in/out cages. Each port can be used as 4X10G, 4X25G, 1X40G or 1X100G. (QSFP+/QSFP28 not included), All ports enabled. 48V DC Redundant Power Supply.
QSFP+-SR/M-4	QSFP+ SR4 - 40G Parallel Fiber - Multimode (850nm) with MPO/MTP connector.
QSFP+-LR/M-4	QSFP+ LR4 - 40G Parallel Fiber -Single mode (1310nm) 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-PSM4/M-4	QSFP28 for 100G Parallel Fiber- Single mode(1310nm) with MPO/MTP connector.
QSFP28-LR4/L	QSFP28 for 100G LAN-WDM Single mode (1310nm) with LC connector.
CML-14-3-MM-2m	Breakout cable MTP/MPO connector (Female) to LC connectors 4 x 10G (Male), Multi-Mode 850nm, OM3, 50/125 um, 2m lenght . To be used with QSFP+-SR/M-4.
CML-14-4-MM-2m	Breakout cable MTP/MPO connector (Female) to LC connectors 4 x 10G (Male), Multi-Mode 850nm, OM4, 50/125 um, 2m lenght. To be used with QSFP+-SR/M-4.
CML-14-SM-2m	Breakout cable 1 x 40G (MPO/MTP connector) to 4 x 10G (8 x LC connectors), OS1/OS2, Single Mode, (1310 nm) 9/125 um; 2m length. To be used with QSFP+-LR/M-4.

Operating	Power	Dimensions	Regulatory
• Operating temperature: 0°C to 45°C (32°F to 113°F) • Operating Humidity: 10% to 90% non-condensing	• Redundant, load sharing, hot-swappable AC or 48V DC PSUs • Input voltage 100V to 240VA C, 40V to 60V DC. • Max power consumption: 550W • Field serviceable cooling	• Chassis 1U, 19" rack mount, (WxDxH): 440 mm x 428,8 mm x 44,4 mm (17.32 in x 16,88 in x 1.75 in) • Weight 11,5 kg (25,35 lbs)	• CE, FCC, RoHS6 compliant

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