Aster A-640
Network Packet Broker

Technical Data Sheet

Microtel innovation

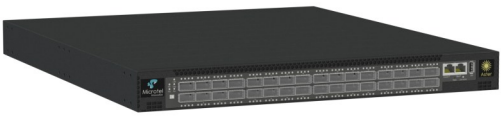
Product Description

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, Timestamping and Tunnel Encapsulation/Decapsulation capabilities,** to improve monitoring tools efficiency and send and get data to/from NFV infrastructure.



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 1×100Gbps, 1×40Gbps, 4×25Gbps, 4×10Gbps, as needed
  - All cages are enabled, no need for additional licences
- **Filtering, Aggregation and Load Balancing:**
  - Filtering based on L2-L5 parameters
  - Selective aggregation: Any to Any, Many to One, One to Many
  - Inner/Outer IP addresses, IP protocol and L4 ports Load Balancing
  - Support Jumbo Packets, up to 10240 bytes
- **L2GRE, L3GRE, VXLAN Tunnel Start/Termination**
- **Advanced Packet Manipulation (APM) capabilities:**
  - Packet slicing
  - MPLS, VLAN, VLAN Q-in-Q, VNTag, ERSPAN Header Stripping
  - L2GRE, L3GRE, VXLAN, GTP-U Detunneling
  - VLAN ID replacement
  - VLAN, MPLS Tag adding and removal
  - Source port Labelling (VLAN)
  - Timestamping
- **Extra capabilities:**
  - Up to 5 MPLS Labels parsing and removal
  - Loopback ports for multiple APM actions
  - PCAP snapshot capture
- **Management:**
  - CLI and GUI for local and remote management
  - API RESTful
  - Real time statistics, counters and SNMP alarms
  - Dashboard for statistics and alarms analysis
  - TACACS+, RADIUS

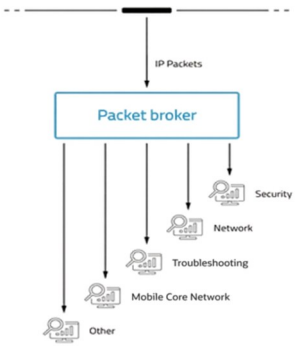
Highlights

- 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

- **Deliver the right data to monitoring tools** by filtering network traffic at Layers 2-4 using **both inner and outer parameters,** as well as UDF-based filtering capabilities by offset matching

- **High density solution with low power consumption:** up to 32×100G ports in 1U space, with maximum power consumption limited to 550W



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Aster A-640 — Technical Specifications

Input/Output Capabilities	
Number of physical ports	32 cages, supporting QSFP28 (1×100 Gbps or 4×25 Gbps) and QSFP+ (1×40 Gbps or 4×10 Gbps)
Performances	Switching Capacity: 6.4 Tbps
Management	
Management ports	10/100/1000BASE-T port, RJ45 connector
Protocols	IPv4, IPv6, SNMPv2, SNMPv3, HTTPS, TACACS+, RADIUS, 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 1×100G, 1×40G, 4×25G or 4×10G (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 1×100G, 1×40G, 4×25G or 4×10G (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 4×10G (Male), Multimode 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 4×10G (Male), Multimode 850nm, OM4, 50/125 um, 2m lenght. To be used with QSFP+-SR/M-4.
CML-14-SM-2m	Breakout cable 1×40G (MPO/MTP connector) to 4×10G (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 240V AC, 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