

## Product Description

### 1/10/25/40/100Gb/s Packet Broker

Aster A-648e 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-648e provides the capability to interface network traffic with a single device, no matter if 1Gb/s, 10Gb/s, 25Gb/s, 40Gb/s or 100Gb/s interfaces are used, and to aggregate, filter and load balance towards the monitoring tools at different speeds.

## Key features

- **Input/output ports:**
  - \* 1Gb/s, 10Gb/s, 25Gb/s, 40Gb/s and 100Gb/s visibility in 1U form factor
  - \* 48 cages are available, each one can be used as 1x1Gb/s or 1x10Gb/s as needed
  - \* 6 cages are available, each one can be used as 1x100Gb/s, 1x40Gb/s (2 ports 40/100G can also be used as 4 x 25Gb/ or 4x10Gb/s each) as needed
  - \* 2.16 Tb/s Switching Capacity
- **Filtering and Aggregation:**
  - \* Filtering based on a variety of L2, L3, L4 header
  - \* User defined bytes UDB filtering, supported in the first 128 bytes of the packet
  - \* Inner IP filtering (IPV4, IPV6)
  - \* Selective aggregation: Any to Any, Many to One, One to Many
  - \* Load Balancing
- **L2GRE/NVGRE tunnel encapsulation and decapsulation**
- **Management:**
  - \* GUI for local and remote management
  - \* Real time statistics, counters and SNMP alarms



Aster A-648e

## Highlights

- Possibility to interface all link speed with one only device: 1/10/25/40/100 Gbps ports are available in 1U space.
- Feed the monitoring tools with the right data, by filtering the network traffic up to L4 ;
- Deliver traffic to virtual probes, using GRE tunnel encapsulation capabilities
- Enable Service Providers to keep using their 10Gb/s monitoring tools, by adapting the speed of 40Gb/s and 100Gb/s data links
- Unify virtual and physical visibility, by decapsulating GRE virtual traffic and forwarding it to the existing monitoring tool farm
- Reduce CAPEX as you may use fewer monitoring tools by aggregating the traffic coming from multiple TAPs or SPAN ports;

### Aster A-648e — Technical Specifications

Input/Output Capabilities	
<b>Number of physical ports</b>	<b>54 physical ports:</b> <ul style="list-style-type: none"> <li>• 48 ports as 1/10Gb/s</li> <li>• 6 ports as 40/100Gb/s</li> </ul>
<b>Performances</b>	<b>Switching Capacity: 2.16 Tb/s</b> <b>Jumbo Frames support up to 9K Bytes</b>
<b>Management</b>	
<b>Management ports</b>	1x10/100/1000Mb/s with RJ45 connector
<b>Protocols</b>	IPv4, Ipv6, SNMPv2, HTTPS, TACACS+
<b>Statistics and Alarms</b>	<b>Real time statistics and counters for each input output ports</b> <b>SNMP alarms</b>

### Aster A-648e — Ordering Information

A-648e-FL-4806/AC	NPB: 1RU Chassis, 48 x 1/10G + 6 x 40/100G in/out ports fully licenced. Redundant power supply AC. (SFP/SFP+/QSFP+/QSFP28 not included)
A-648e-FL-4806/DC	NPB: 1RU Chassis, 48 x 1/10G + 6 x 40/100G in/out ports fully licenced. Redundant power supply DC. (SFP/SFP+/QSFP+/QSFP28 not included)
SFP-GT/J	1000 Base T Copper with RJ-45 connector
SFP-GM/J3	10/100/1000 Base T Copper (3 Speed) with RJ-45 connector
SFP-GS/L-24	1000 Base SX (850nm) Multi-Mode with LC connector
SFP-FS/L-30	100 Base-FX (1310 nm) Multi-Mode with LC connector
SFP-GL/L-23	1000 Base LX (1310nm) Single-Mode with LC connector
SFP-GW/L-24	1000 Base ZX (1550nm) Single-Mode with LC connector
SFP+-HR/L-11	10G Base-SR (850 nm) Multi-Mode with LC connector
SFP+-HP/L-14	10G Base-LR (1310 nm) Single-Mode with LC connector
SFP+-HQ/L-15	10G Base-ER (1550nm) Single-Mode with LC connector
SFP-10GT/J	10 GE Base T Copper with RJ-45 connector
QSFP+-SR/M-4	QSFP+ SR4 - 40G Parallel Fiber - Multi-Mode (850nm) with MPO/MTP connector
QSFP+-LR/M-4	QSFP+ LR4—40G Parallel Fiber - Single-Mode (1310nm) with MPO/MTP connector
QSFP28-SR/M-4	QSFP28 for 100G Parallel Fiber - Multi-Mode (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

Operating	Power	Dimensions	Regulatory
<ul style="list-style-type: none"> <li>Operating temperature: 0°C to 40°C (32°F to 104°F)</li> <li>Storage temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Humidity: 5% to 95% non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>Redundant, hot-swappable AC or -48VDC PSUs</li> <li>Input voltage 100-240VAC at 50-60Hz, -40 to -72VDC</li> <li>Max power consumption: 356W</li> <li>Field serviceable cooling</li> </ul>	<ul style="list-style-type: none"> <li>Chassis 1U surface or 19" rack mount, (WxDxH): 44.25*47.33 *4.395 cm (17.42* 18.63*1.73 in)</li> <li>Weight 9 kg (20 lbs)</li> </ul>	<ul style="list-style-type: none"> <li>FCC title 47, Part 15, Subpart B Class A</li> <li>CE Mark</li> <li>Safety: EN60950, UL60950</li> <li>RoHS-2.0 compliant</li> </ul>