

BENEFITS

Save money: fewer IP monitoring tools are required

Reduce complexity: fewer links between network devices and the monitoring tools

Increase security: fewer access points

Increase flexibility: new devices and applications can be easily added

Maintain high Service Level Agreement: reducing the overall number of devices and connections

FEATURES

Speed

1G and 10G access at full line rate

Ports

Up to 16 (A-618) or 32 IN/OUT ports configurable for Input network access (traffic from in-line TAPs or mirror-ports) or Output monitoring

Optical ports can also be configured as input and output simultaneously

A-618T model adds to the 16 IN/OUT ports 2 single optical TAP links integrated in the main chassis:

- * 1/10 Gbps speed
- * Singlemode or multimode fiber

Hw based Filtering

* Packet filter/classification (full wire speed) L2, L3, L4; VLAN and MPLS label filtering; packet accept/deny; packet forward/redirect/multicast

* "User defined bytes" filtering, supported on the first 128 bytes of the packet

Selective Aggregation

Any-to-any

"Security check" on Output monitoring ports

This function allows to apply, if required, a "security check" to each output port connected to a probe, so that, when detected the probe disconnection, these ports are automatically disabled generating a warning alarm

* Next the disabled ports can be get enabled only with a system reconfiguration, so implementing a security policy aimed to avoid unauthorized intrusions in the network

Load Balancing

This function enables the device to distribute the input traffic to the output ports in a balanced way, using:

- * Balancing Groups and a Session Oriented Hash Algorithm

Management

- * Embedded GUI for Web management (HTTPS)
- * Multi-user access with defined privileges

Real Time and Daily Statistics

For each IN/OUT port: bandwidth, packet counter, packet size, Tx/Rx errors

Alarms

- * SNMP traps



Aster A-620 model



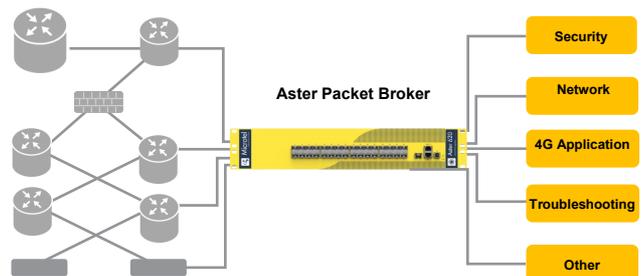
Aster A-618 model

Aster 620-618 are Microtel new series of **packet brokers**, which, once connected to the network devices, filter and direct to the monitoring tools only the traffic to be analyzed, improving network visibility and simplifying business and security controls.

Under the pressure of a myriad of new incoming services, such as VOIP, video streaming and many others, today's IP network are carrying an increasing multi-protocol traffic, at higher bitrates, that requires a very close real time data monitoring in more points of the network.

As a final result, monitoring tools are oversubscribed, while the overall architecture is complicated by a lot of connections between network devices, SPAN ports and the monitoring probes themselves.

Aster 620-618 packet brokers are the solution for all these problems.



Balancing Groups and a Session Oriented Hash Algorithm

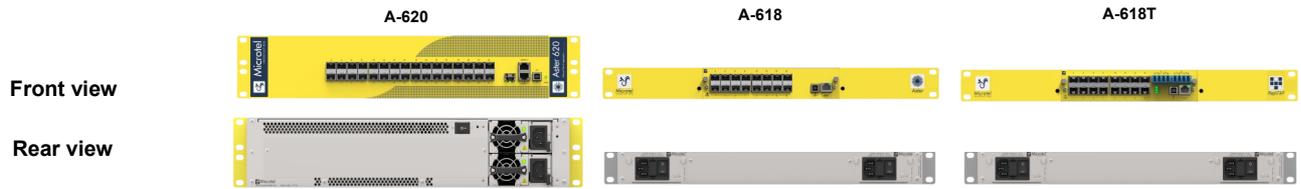
Each **Balancing Group** is a logical association between a set of IN ports (up to 8) and a set of OUT ports (up to 8); within the same group the traffic coming from the input ports will be forwarded to the output ones in a balanced way. Any IN or OUT port can belong to a single Balancing Group, while ports defined as IN/OUT at the same time can't be used in this configuration.

The Session Oriented Hash algorithm used to calculate the "output port" is **Simple Hash Mode on Packet Header Information** and it works on the following header parameters:

L2 MAC address, L3 IPv4 Address, L4Port UDP/TCP.

The algorithm guarantees that all the input traffic belonging to a specific session is sent to the same output port and thereby to the same probe, this assuming that the parameters used to identify the "sessions" are also used in the hash algorithm.

Technical features



Model	A-620	A-618	A-618T
Front view			
Input/output and TAP ports	Up to 32 to be equipped with SFP or SFP+	Up to 16, to be equipped with SFP or SFP+	Up to 16, to be equipped with SFP or SFP+ and 2 single optical TAP links
Port status led	for each input/output port	for each input/output port	for each input/output/TAP port
Console port	1 USB	1 USB	1 USB
Management/Network LAN port	1x10/100/1000 Mbps with RJ45 connector	1x10/100/1000 Mbps with RJ45 connectors	1x10/100/1000 Mbps with RJ45 connectors
Power status led	ON/OFF	ON/OFF	ON/OFF
Rear view			
ON/OFF switch	One for each power supply AC/DC (2), with power status led	One for each power supply AC/DC (2)	One for each power supply AC/DC (2)
Full line rate			
	640 Gbps	320 Gbps	340 Gbps
Transceiver type			
Copper (SFP)	1000 Base T; 10/100/1000 Base T	1000 Base T, 10/100/1000 Base T	1000 Base T, 10/100/1000 Base T
Singlemode (SFP/SFP+)	1000 Base LX (1310 nm), 1000 Base ZX (1550 nm) / 10 GE Base LR (1310 nm), 10 GE Base ER (1550 nm)	1000 Base LX (1310 nm), 1000 Base ZX (1550 nm) / 10 GE Base LR (1310 nm), 10 GE Base ER (1550 nm)	1000 Base LX (1310 nm), 1000 Base ZX (1550 nm) / 10 GE Base LR (1310 nm), 10 GE Base ER (1550 nm)
Multimode (SFP/SFP+)	1000 Base SX (850 nm) / 10 GE Base SR (850 nm)	1000 Base SX (850nm) / 10 GE Base SR (850 nm)	1000 Base SX (850nm) / 10 GE Base SR (850 nm)
Part number			
Main chassis with: 32 in/out ports (A-620) or 16 in/out ports (A-618) or 16 in/out ports & and 2 single optical TAP links integrated (A-618T); for in/out ports SFP/SFP+ not included)	A-620-B2-32GH	A-618-B1-16GH	A-618T-B1-16GH-2Tsyzz (*)
Licence to enable 1x1G in/out port	A-620-L1G	A-618-L1G	A-618T-L1G
Licence to enable 1x1/10G in/out port	A-620-L1GH	A-618-L1GH	A-618T-L1GH
Licence to upgrade 1 in/out port from 1G to 1/10G	A-620-L1UGH	A-618-L1UGH	A-618T-L1UGH
Licence to enable (24 or 12) x1G in/out port	A-620-L24G	A-618-L12G	A-618T-L12G
Licence to enable (24 or 12) x1/10G in/out port	A-620-L24GH	A-618-L12GH	A-618T-L12GH
Licence to upgrade (24 or 12) in/out port from 1G to 1/10G	A-620-L24UGH	A-618-L12UGH	A-618T-L12UGH
Redundant power supply AC or DC	PS2-3/460-AC or PS2-5/460-DC	PS1-3/160-AC or PS1-5/160-DC	PS1-3/160-AC or PS1-5/160-DC
(*) Option s (speed): s=G=1G or s=H=10G; option y (fiber): s=L=singlemode (9/125 µm-OS1) or y=S=multimode (62.5/125 µm-OM1) or y=F=multimode (50/125 µm-OM3) Option zz (split ratios): zz=55=50/50 or 64=60/40 or 73=70/30 or 82=80/20 or 91=90/10			

Management	Operating	Power	Dimensions (A-620)	Dimensions (A-618/A-618T)
<ul style="list-style-type: none"> • WEB based GUI • Management interface <ul style="list-style-type: none"> - 1 USB - 1 Ethernet LAN ports 	<ul style="list-style-type: none"> • Operating temperature: 0°C to 45°C • Storage temperature: -10°C to 70 °C • Relative humidity: min 10% max 95% not condensing 	<ul style="list-style-type: none"> • 220-110 Vac 50-60 Hz hot swap power module • 48 Vdc hot swap power module • Default redundancy • Max consumption: (fully equipped) 350 W (A-620); 150 W (A-618) 	<ul style="list-style-type: none"> • Chassis 2U surface or 19" rack mount 483 mm W, 453 mm D, 88 mm H • Weight: (fully equipped) 7.5 kg (16.5 lbs) 	<ul style="list-style-type: none"> • Chassis 1U surface or 19" rack mount 483 mm W, 440 mm D, 44 mm H • Weight: (fully equipped) 4 kg (8.8 lbs)

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