

Filtering & Aggregating for 1/10G networks

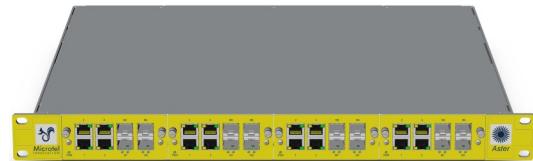
## Aster Filter & Aggregator with integrated TAPs

**Microtel's Quality & Best Price !**

### FEATURES

- Up to **32x1G** or **8x10G** input ports or mixed up to **16x1G** and **2x10G** output ports
- HW based filtering
- Selective aggregation
- Multiple integrated TAPs
- WEB based GUI for configuration and mangement

A-520 model

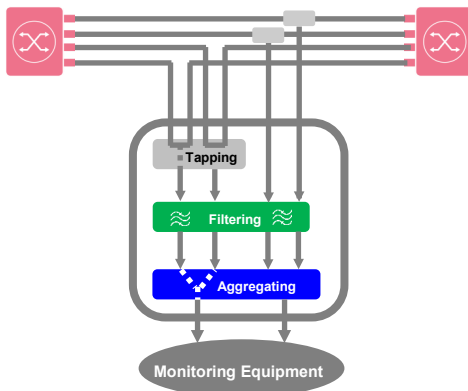


**Aster 520** is a modular ethernet access system, which, once connected to the network devices, filters and directs to the monitoring tools only the traffic to be analyzed, improving network visibility and simplifying business and security controls.

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. As IP networks were originally designed for "best effort" transport of "non-time-critical" data, such as e-mails, moving upon them real time services could become a critical process, 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 520** is the solution for all these problem, as it combines the features of multiple products: filter, aggregator, matrix switch, port multiplier and has a flexible modular architecture, that handles both filtering/aggregating input modules and integrated TAPs modules.



### BENEFITS

- **Save money:** fewer IP monitoring tools are required
- **Reduce complexity:** fewer links between network devices and the monitoring tools
- **Increase flexibility:** both filtering and tapping input modules available
- **Maintain high Service Level Agreement**
- **Increase security**

| MAIN FEATURES                | DESCRIPTION   |
|------------------------------|---|
| <b>Speed</b>                 | 1G and 10G access at full line rates  |
| <b>Ports</b>                 | A-520: up to 32x1G or up to 8x10G (or mixed) Input ports; A-520T: up to 16 Ethernet Copper Filtering/Aggregating TAPs; up to (16x1G and 2x10G) output ports; each to be equipped with SFP (copper or fiber) or SFP+   |
| <b>Filtering (</b>           | <ul style="list-style-type: none"> <li>• Packet filter/classification (full wire speed) MAC (source, destination),IP (source, destination, range), Port Number (port, range) VLAN and MPLS label filtering</li> <li>• "User defined bytes" filtering, supported on the first 128 bytes of the packet</li> </ul> |
| <b>Selective aggregation</b> | Any-to-any; any-to-many; many-to-any; many-to-many port mapping   |
| <b>Management</b>            | <ul style="list-style-type: none"> <li>• GUI management (HTTPS)</li> <li>• Multi-user access with defined privileges, unique screen views and management accessibility restrictions</li> </ul>  |
| <b>Statistics</b>            | For each input/output port: bandwidth, packet counter, packet size, Tx/Rx errors  |
| <b>Alarms</b>                | SNMP alarms & traps   |
| <b>Security</b>              | RADIUS e TACACS+ authentication   |

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**Technical features**

A-520 Rear view

A-520S Front view

A-520T Front view



| Model  | A-520S  | A-520T (integrated TAPs)  |
|--|---|---|
| <b>Front view</b>  |   |   |
| Input /output port   | up to 32x1G or 8x10G to be equipped with SFP or SFP+  | up to 16 x100/1000 Ethernet Copper Filtering/Aggregating TAPs   |
| Output port  | up to 16x1G and 2x10G, to be equipped with SFP or SFP+  | up to 16x1G and 2x10G, to be equipped with SFP or   |
| Led port status  | on each input/output port   | on each input/output port   |
| Console/serial port  | 1 RJ45  | 1 RJ45  |
| Management network LAN port  | 1 RJ45 10/100:  | 1 RJ45 10/100   |
| Led power status   | ON/OFF  | ON/OFF  |
| <b>Rear view</b>   |   |   |
| ON/OFF switch  | One for each redundant power supply AC/DC   | One for each redundant power supply AC/DC   |
| <b>Transceiver type</b>  |   |   |
| Copper (SFP)   | 1000 Base T; 10/100/1000 Base T;  | 1000 Base T, 10/100/1000 Base T   |
| Singlemode (SFP/SFP+)  | 1000 Base LX (1310nm), 1000 Base ZX (1550nm) / 10 GE Base LR (1310 nm),10 GE Base ER (1550nm), 10 GE Base-LR/ER/ZR (1310/1550nm); | 1000 Base LX (1310nm), 1000 Base ZX (1550nm) / 10 GE Base LR (1310 nm),10 GE Base ER (1550nm), 10 GE Base-LR/ER/ZR (1310/1550nm); |
| Multimode (SFP/SFP+)   | 1000 Base SX (850nm) / 10 GE Base SR (850 nm)   | 1000 Base SX (850nm) / 10 GE Base SR (850 nm)   |
| <b>Part number</b>   |   |   |
| Bundle: chassis 1U,1 filtering input module [(8x1G) input + (2x10G+16x1G) output] ports    | <b>A-520S-8Gx-2Hx-16Gx/z</b>  |   |
| Bundle: chassis 1U, 2 filtering input module [(16x1G) input + (2x10G+16x1G) output] ports  | <b>A-520S-16Gx-2Hx-16Gx/z</b>   |   |
| Bundle: chassis 1U, 3 filtering input modules [(24x1G) input + (2x10G+16x1G) output] ports | <b>A-520S-24Gx-2Hx-16Gx/z</b>   |   |
| Bundle: chassis1U, 4 filtering input modules [(32x1G) input + (2x10G+16x1G) output] ports  | <b>A-520S-32Gx-2Hx-16Gx/z</b>   |   |
| TAP Bundle: chassis 1U, 1x4 copper TAPs input module, (2x10G+16x1G) output ports           |   | <b>A-520T-4GT-2Hx-16Gx/z</b> (only input TAPs)  |
| TAP Bundle: chassis 1U, 2x4 copper TAPs input module, (2x10G+16x1G) output ports           |   | <b>A-520T-8GT-2Hx-16Gx/z</b> only input TAPs)   |
| TAP Bundle: chassis 1U, 3x4 copper TAPs input module, (2x10G+16x1G) output ports           |   | <b>A-520T-12GT-2Hx-16Gx/z</b> only input TAPs)  |
| TAP Bundle: chassis 1U, 4x4 copper TAPs input module, (2x10G+16x1G) output ports           |   | <b>A-520T-16GT-2Hx-16Gx/z</b> only input TAPs)  |
| x option: select SFP, SFP+   |   | z option : select redundant power AC or DC  |

**Management**

- WEB based GUI
- Management interfac
  - 1 serial port
  - 1 Ethernet LAN ports

**Operating**

- Operating temperature: 0°C to 45°C
- Storage temperature: -10°C to 70 °C
- Relative humidity: min 10% max 95% not condensing

**Power**

- 220-110 Vac 50-60 Hz power module
- 48 Vdc power module
- Default redundancy
- Max consumption (fully quipped) 150 W

**Dimensions**

- Chassis 1U surface or 19" rack mount 483 mm W, 450 mm D, 44 mm H
- Weight: (fully equipped) 8.8 pounds (4 kg)



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