Product Description

1/10 Gb/s Network Packet Broker with integrated Passive Optical TAPs

RT-604 is a Microtel's packet broker for 1/10Gb/s links, providing the capability to **tap, filter and aggregate network traffic in a single box,** and to **load balance** it towards the monitoring tools at wire speeds.

RT-604 **integrates passive optical TAPs** for non-intrusive access to physical traffic at 1/10Gb/s: in this way customer can integrate in one only box both tapping and packet brokering capabilities, getting a very compact and secure solution.
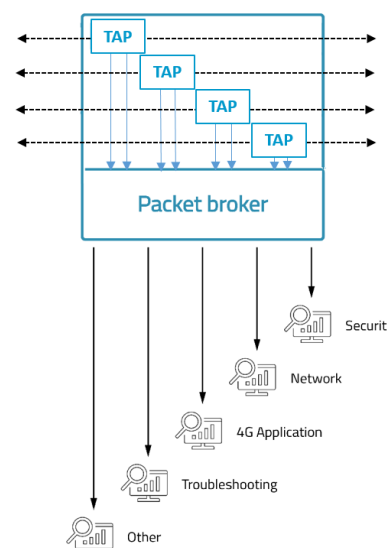
Key features

- **Input/output ports:**

  ∗ Up to 16 integrated passive optical TAPs (32 input ports):

    ◊ 1/10Gb/s speed
    ◊ Singlemode or multimode fiber
    ◊ 50/50, 60/40, 70/30, 80/20, 90/10 split ratio

  ∗ Up to 32x1/10Gb/s output ports

  ∗ Protected TAP Ports (PTP) function, which automatically disable output port data trasmission in case the cable to the monitoring tool is disconnected.

- **Filtering and Aggregation:**

  ∗ Filtering based on a variety of L2, L3, L4 header,

  ∗ User defined bytes (UDB) filtering supported

  ∗ Selective aggregation: Any to Any, Many to One, One to Many,

- **Load Balancing,**

  ∗ Load balancing input traffic to the output ports, using session oriented Hash algorithm, on the following header parameters:

    ◊ L2 MAC address, L3 IPv4 address, L4 port UDP/TCP

- **VLAN Tagging,**

  ∗ The device appends a VLAN ID to the packet header to identify which input port the packet has arrived from

- **Management**:

  ∗ GUI for local and remote management,

  ∗ Real time statistics, counters and SNMP alarms.

Highlights

- **Protect data integrity, and avoid any unauthorized intrusion**:

  ∗ Secure monitoring data from any possible intrusion, **using the PTP function**

  ∗ Thanks to the **integrated TAPs**, it **prevents any potential attacks or disruption** to the live traffic, protecting the fiber network from light injection.

- **Reduce space and power footprint** as both tapping and packet brokering capabilities are implemented in one only box

- **Feed the monitoring tools with the relevant data,** by filtering the network traffic up to L4 or using UDB filtering capabilities

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RT-604 — Technical Specifications

Input/Output Capabilities	
Number of input ports	Up to 16 Optical TAPs (32 Passive Optical Splitter Single mode or Multimode)
Number of output ports	Up to 32 1/10GbE (SFP/SFP+), Single mode or Multimode
Management	
Management port	10/100Mb/s with RJ45 connector
Protocols	IPv4, SNMP, HTTP
Statistics and alarms	Real time statistics and counters for each input output ports SNMP alarms

RT-604 —Ordering Information

RT-604-B2	RT-604 Base Unit, 2U, 19" rack mount, can host up to 4x1/10G input/output modules
RT-604-4T-sytkzz*	RT-604 module, including 8X1G or 8x10G output ports (2XMTP/MPO Connectors) and 4x 1/10 Gigabit optical TAP links. Filtering/aggregating capabilities included.
PS2-3/460-AC	Redundant power supply AC
PS2-5/460-DC	Option: unit with redundant power supply DC
CMM-11-3-MM-2m	MTP/MPO (1 to 1) connector cable multimode OM3, 2m lenght
CMM-11-3-MM-5m	MTP/MPO (1 to 1) connector cable multimode OM3, 5m lenght
CMM-11-4-MM-2m	MTP/MPO (1 to 1) connector cable multimode OM4, 2m lenght
CMM-11-4-MM-5m	MTP/MPO (1 to 1) connector cable multimode OM4, 5m lenght
CMM-11-SM-2m	MTP/MPO (1 to 1) connector cable singlemode, 2m lenght
CMM-11-SM-5m	MTP/MPO (1 to 1) connector cable singlemode, 5m lenght
CML-14-MM-2m	Breakout cable 1 x 40G (MPO/MTP connector) to 4 x 10G (8 x LC connectors), OM3, Multimode (850 nm) 50/125 um; 2m lenght
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 lenght

*Option s (input speed) & k (ouput speed): s,k=G=1G or s,k=H=10G. Option y (input ports fiber type) & t (output ports fiber type): y,t=L=singlemode (9/125 μm-OS1) or y,t= S=multimode (62.5/125 μm-OM1) or y,t=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

Operating	Power	Dimensions
• Operating temperature: 0°C to 45°C • Storage temperature: -10°C to 70°C • Operating Humidity: 10% to 95% non-condensing	• 220-110 Vac 50-60 Hz • 48 Vdc hot swap power module • Max consumption: (fully equipped) : < 350W	• Chassis 2U 19" rack mount 483 mm W, 453 mm D, 88 mm H • Weight 12 kg (26.4 lbs)

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