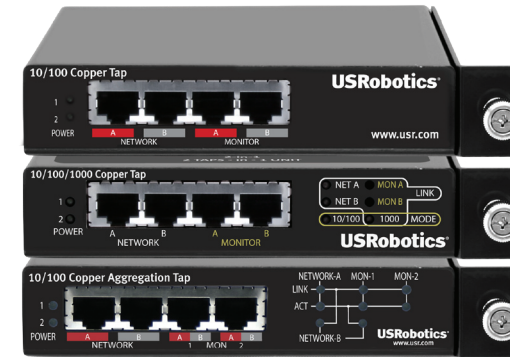
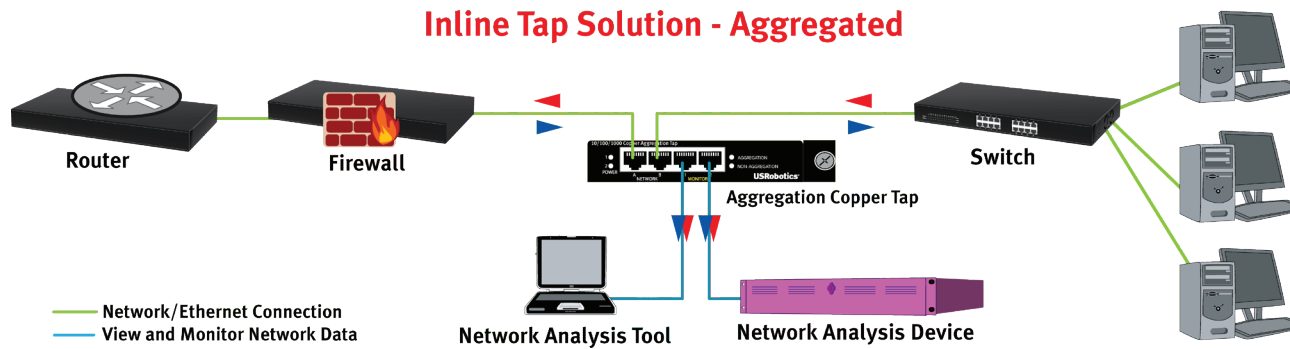


# TAP Solutions from USR

In-line Copper and Fiber TAPs

## MONITOR NETWORK TRAFFIC WITH THE NEW USROBOTICS COPPER AND FIBER TAPS



### What is a TAP?

- Test Access Port
- A network device that is placed on an Ethernet segment which can then provide a copy of that traffic for analysis with network tools like Wireshark and Snort or other monitoring products.
- Permanent point of access to gather network intelligence.

### Why USR?

- Trusted name and reputation in the industry for over 30 years
- Professional support (via web, mail and telephone)
- Wide distribution and channel networks for quick availability

### Why use TAPs?

- Provide a secure 24x7 point of access for network tools or for troubleshooting
- Passive devices and will not be a single point of failure
- Make copies of data in real-time with very little or no traffic delay
- Physical layer devices and able to provide all traffic over that link for analysis
- Low cost and a highly reliable way to provide data non-intrusively to network tools
- Can be used to provide the physical layer traffic to other aggregation devices complementing the collection from a SPAN or Port Mirror captures for improved analysis
- Retain use of ports on network switches
- Improve network performance when used with market leading packet analyzing software/hardware tools.

### Target Customers

- Companies who require 24x7 monitoring capability e.g. IDS, VoIP Recording etc.
- Service organizations who may need to “plug in” to conduct troubleshooting in support of an SLA agreement, avoiding SPAN or Port Mirror configuration of a switch or router which may be tied to a configuration change policy at the customer location
- Compliance Requirements where all data needs to be captured and analyzed - combination of tapping and SPAN/Port Mirrors
- Companies looking to reduce operational expenses and mitigate risk

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# TAP Solutions from USR

## In-line Copper and Fiber TAPs

### TAP features

- Completely non-intrusive
- Redundant Power Supplies (copper) or non-powered (fiber)
- Network traffic continues to flow even if power is lost to the tap
- Copper and Fiber - 10/100/1000, 1G/10G options

### Non-Aggregated

- Full-duplex data capture of all traffic on a network link - data transferred to monitoring device in 2 half-duplex streams
- Requires two Receive (RX) ports on the network tool interface to provide the ability to monitor both sides of the traffic

### Aggregated

- Faultlessly combine 2 data streams, sending a single full-duplex data stream to the monitoring device
- Network Tool interface requires a single port capable of taking both a transmit and receive data stream
- Capable of providing data to two devices (ie. IDS, Snort or Wireshark)
- Passes traffic at line rate

## Product Family

Product	Media Type	Speed	Inline	Aggregated	Passive* (Doesn't Break Link)	Traffic Injection	Network Ports	Monitor Ports	Port Types	Pass Errors	Pass PoE	MSRP Price ex Vat
USR4503	Copper	10/100/1000	●	●	●	NO	2	2 Full Duplex Connections	RJ45	●	●	£493
USR4515LC	Fiber	10 Gig SR OC3 OC48	●	NO	●	NO	2 Tx/Rx pairs	1 Rx Pair	50um LC 50/50 split	●	n/a	£368
USR4516LC	Fiber	10 Gig LR OC3 OC48	●	NO	●	NO	2 Tx/Rx pairs	1 Rx Pair	9um LC 50/50 split	●	n/a	£368

### LC Fiber TAP features

- Non-powered devices - optically split the light signal so no risk of an outage on the link
- Passive by nature - undetectable on a network and will always transmit 100% of traffic
- Installation incurs minimal network latency <10ns.
- Supports 1G and 10G speeds
- Available in 9 or 50 micron fiber diameters
- LC Connectors

### Aggregation TAP features

- Supports both aggregation or non aggregation modes
- Passive - traffic will continue to flow over the network in the event of a loss of power without a delay
- Invisible - both tap and attached monitors are not visible on the network
- Replication - monitor ports allow two separate monitoring devices to receive the same bidirectional data from the link
- Free SPAN ports - open ports on the switch
- Power over Ethernet - allows power to flow between network ports (useful when tapping a link with an IP phone)
- Separation of Duty - use switch for switching traffic and tap for monitoring



\* After installation

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