## Package Contents:
- USR4503 10/100/1000 Copper Aggregation Tap with attached mounting bracket for use with URS4500-RMK
- 1 AC Power supply with power cords for US, UK/IRE, Europe
- Information Card

The USR4503 Aggregation Tap will tap a single network link and make copies of traffic. These copies can be kept separate and sent out two ports, or they can be combined to allow full duplex monitoring out each port. In our example below, we show a tapped connection between a firewall and router.

Installation
The USR4503 Network ports A and B are inserted between two directly connected network devices (i.e. firewall and router). Traffic will flow between these network ports even if the tap is now powered.

- Connect your monitoring device to TAP (Monitor) port A. This port will transmit incoming traffic on Network Port A, or a combination of both Network ports.
- Connect your monitoring device to TAP (Monitor) port B. This port will transmit incoming traffic on Network port B, or a combination of both Network ports.
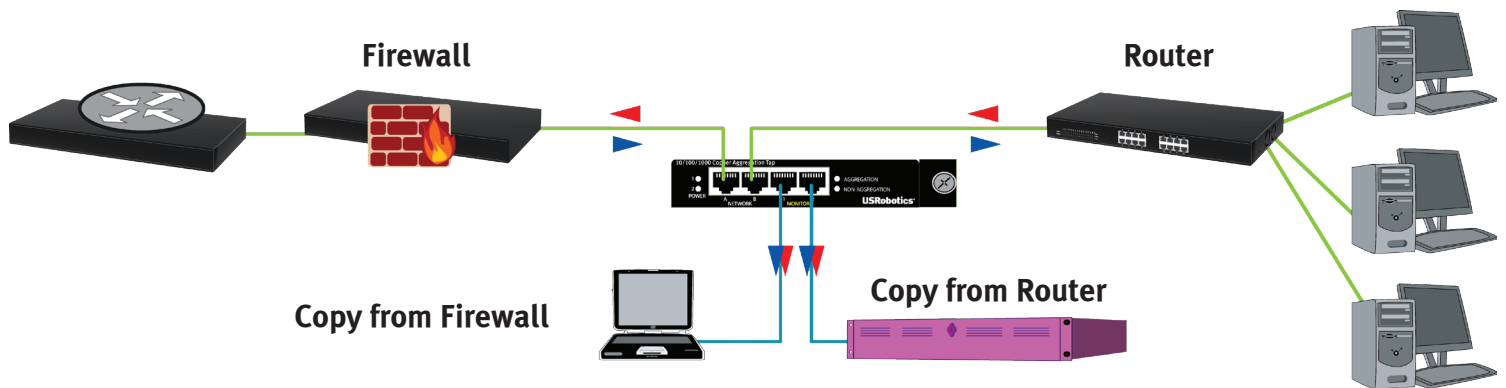
Switch Settings
A convenient switch on the back of the tap can be used to toggle aggregation on or off. When set to "NON," Monitor port A will only transmit a copy of the recieved traffic on Network port A, and Monitor port B will only transmit a copy of recieved traffic on Network port B.

When the device is set to "AGG" mode, the tap combines traffic from both Network port A and Network port B and transmits an aggregated copy from each monitor port.

Selectable Switch

Additional features
- The USR4503 supports dual redundant power supplies. One power supply is provided, a second can be sourced from USRobotics. When used with two power supplies the tap will remain powered even if one power supply fails. It is recommended that each power supply is connected to a separte circuit breaker to minimize the risk of power loss.
- If power is lost on the USR4503, internal relays on the network ports will close and allow traffic to continue to pass through. Monitor ports will not transmit traffic while the device is powered off.
- The URS4503 supports passing Power-Over-Ethernet (PoE) over the network ports.
- Supports frame sizes up to 10,240 bytes

Installation Notes:

- Before setting the USR4503 to aggregation mode, it is important to consider the link utilization on the network links. If the combined bidirectional traffic over the network ports exceeds the speed of the monitoring devices, loss of the traffic through the monitoring ports will occur.
- All ports on the USR4503 are se to AUTO speed negotiation. If these ports are connected to devices with manual speed settings, confirm that the devices on the either side of the tap are at the same speed. For optimal results set all devices to AUTO speed negotiation.
- It is recommended that the endpoint devices connected to each network port are capable of the same maximum speed. Oversubscription may occur if the speeds are mismatched. If the device loses power and the end devices are set to different speeds, loss of traffic may occur.
- MDI-X may need to be turned off on somse network devices connected to the tap for proper communication.
- Power supplies should be connected to outlets with different circuit breakers to maintain maximum uptime.
- The maximum cable length between network devices (not including the tap) should be 90m
- Rack mount USR4500-RMK is available separately to mount 3 units horizontally.

Warranty and Support Information:

This product is subject to the U.S. Robotics Corporation Limited Warranty. To view a copy of the LimitedWarranty, please see: **www.usr.com/support/4503**

For information on how to contact USRobotics Technical Support, please see the USRobotics corporate website at: **www.usr.com/support**

Regulatory Information:

$$CE$$

CE Compliance
Declaration of Conformity
Hereby, USRobotics, declares that this tap, USRobotics 10/100/1000 Copper Tap, is incompliance with the essential requirements and other relevant provisions of EMC Directive 89/366/EEC and Low Voltage Directive 98/68/EEC. An electronic copy of the original CE Declaration of Conformity isavailable at the USRobotics website: **www.usr.com**

This product is subject to Directive 2012/19/EU of the European Parliament and the Council ofthe European Union on waste electrical and electronic equipment (WEEE) and, in jurisdictionsadopting that Directive, is marked as being put on the market after August 13, 2005, and shouldnot be disposed of as unsorted municipal waste. Please utilize your local WEEE collectionfacilities in the disposition of this product and otherwise observe all applicable requirements. For further information on the requirements regarding the disposition of this product and collection facilities that may beavailable to you, please visit: **www.usr.com/weee**
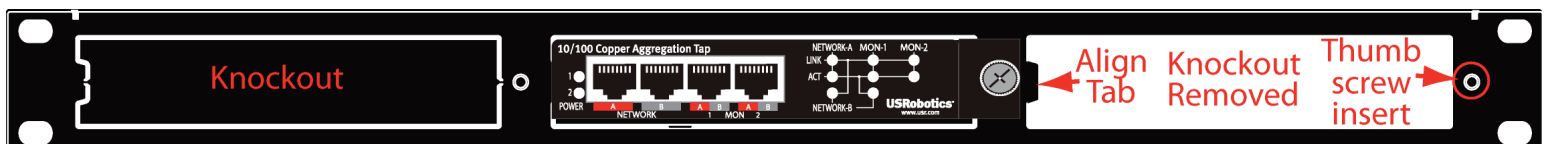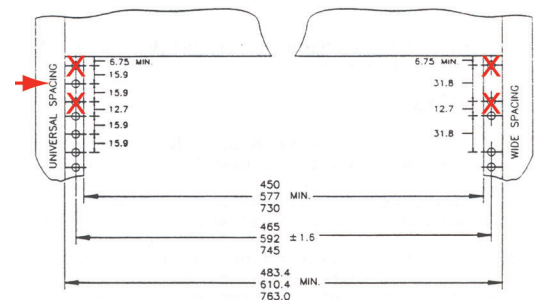
RoHS
Compliant
2011/65/EU

This product is subject to Directive 2011/65/EU of the European Parliament and the Council ofthe European Union on restriction of the use of certain hazardous substances in electrical andelectronic equipment (RoHS) and, in jurisdictions adopting that Directive. For further information regarding this product, please visit: **www.usr.com/rohs**

Equipment Rack Installation:

- Select a location and align the 10/100/1000 Copper Aggregation Tap thumb screw with the corresponding universal flange middle hole.

  WARNING: Installing on a wide flange hole will result in the tap invading an adjoining standard 1U rackspace, unless a rackmout kit is used. The 19" 1U USR4500-RMK Rackmount Installation Kit is available for up to three units.

- Tighten the thumb screw until the tap is secure in the rack.

19" 1U USR4500-RMK Rackmount