# SX & LX Gigabit Fiber Taps

With 1 network and 1 Monitor Connection

The USRobotics Gigabit Fiber Taps provide an easy method to rapidly and effectively deploy analysis tools to observe and monitor traffic non-intrusively between two devices on a fiber network. By design, fiber taps are totally passive, fault-tolerant, and invisible to the network which means they will not affect network performance or integrity and can be trusted for permanent installations on a fiber network. These rock solid devices are ideal for real-time monitoring and analysis of any traffic between critical network devices such as switches, routers and firewalls and continue to pass errors that aren't seen using SPAN ports. Topology independent, the taps can be used for ATM, Gigabit, OC3-OC48, or SONET protocols and are available for both Singlemode and Multimode fiber networks.

USRobotics®

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Permanent inline monitoring and analysis
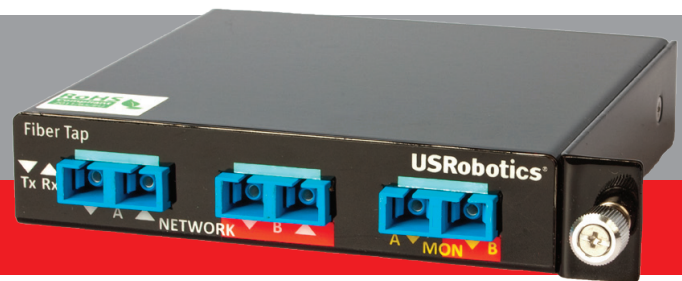
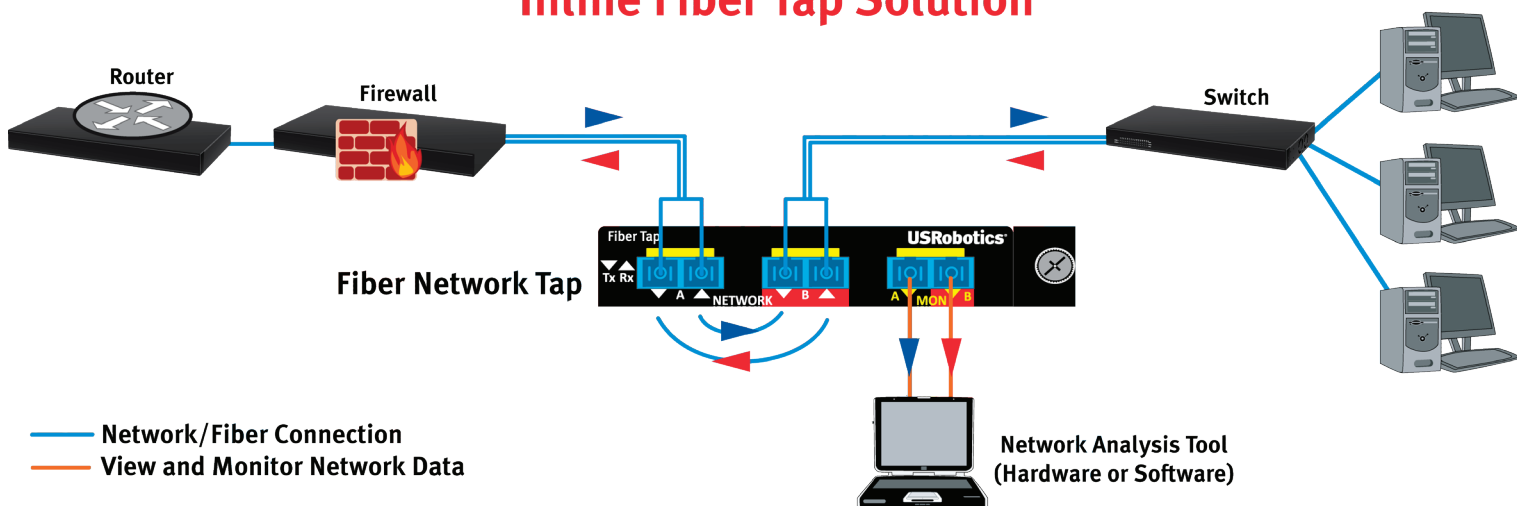|	
Monitoring & Analysis	• Captures and delivers a copy of all traffic to any analysis tool • 100% visibility into the network - including VLAN tags • View all traffic on both sides of full duplex links • Reduces degradation of switch performance due to port mirroring • View Layer 1 and 2 errors such as runts and CRC errors not seen when performing network monitoring using SPAN ports • Full duplex monitoring • Best method to measure network link's performance • Great for network analysis and troubleshooting, IDS and monitoring applications
Network Stability	• Ideal for 24x7 permanent access - eliminating the need to connect tools each time a link needs to be monitored • Non-intrusive way to connect a network tool • Minimize traffic delay • Fault-tolerant design
Secure & Reliable	• Passive access means no interference of network traffic • Invisible on the network - no IP address means additional security • No single point of failure • Network traffic will continue to pass uninterrupted
Excellent Compatibility	• 50/50 split ratio • Multimode models available in both 1G and 10G • Singlemode models available in both 1G and 10G • Supports multiple topologies: Gigabit Ethernet, ATM, OC3-48, and SONET
Simple installation	• Plug and play • No power required • Connectors on front for easy access and operation • Comes with convenient built-in rackmount adapter for use with the optional USR4500-RMK 1U 3 unit rack mount.

Inline Fiber Tap Solution

Router
Firewall
Switch
Fiber Network Tap

Fiber Tap
Tx Rx
A NETWORK B
A MON B
USRobotics

━━━ **Network/Fiber Connection**
━━━ **View and Monitor Network Data**

**Network Analysis Tool
(Hardware or Software)**

MODELS 4511, 4512
GIGABIT FIBER TAPS

SPECIFICATIONS & STANDARDS

PHYSICAL
- Metal 1U chassis
- Two TX/RX SC Fiber Network Ports
- Two simplex TX SC Fiber Monitor Ports

FIBER
- SC Fiber connectors
- 50/50 Split Ratio
- 4.0 dB Insertion Loss
- SX: 50 micron fiber diameter, wavelength 850 nm
- LX: 9 micron fiber diameter, wavelength 1310/1550 nm

ENVIRONMENTAL
- Temperature:
    - Operating Temperature: 0° to 40° C
    - Non-Operating Temperature: -30° to 65° C
- Humidity:
    - Less than 95% non-condensing operating or non-operating

REGULATORY & CERTIFICATIONS
- CE approved
- RoHS Compliant
- WEEE Compliant

PACKAGE DIMENSIONS/WEIGHT
- 40.01 x 29.21 x 10.80 cm
- 0.72 kg

PRODUCT DIMENSIONS/WEIGHT
- 2.8 x 14.6 x 14.6 cm with rack mount
- 0.29 kg

PACKAGE CONTENTS
- USRobotics Fiber Tap with rackmount bracket

PRODUCT NUMBERS
- USR4511 1000SX Multimode Fiber Tap (50 Micron 50/50)
- USR4512 1000LX Singlemode Fiber Tap (9 Micron 50/50)
- USR4515 10 Gigabit SR Multimode Fiber Tap (50 Micron 50/50)
- USR4516 10 Gigabit LR Singlemode Fiber Tap (9 Micron 50/50)
- USR4500-RMK Optional 3 Unit 1U Tap Rack Mount Chassis

WARRANTY
- 2-year limited manufacturer warranty from date of purchase

USR4500-RMK - 1U Rack Mount Chassis holding up to 3 Taps

This product has been tested for user safety and adheres to the CE marking , compliance and safety standards.

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CE

RoHS Compliant 2011/65/EU