



v1 x1 Converter Tap

V1.1 C.S-J | V1.1 S.C-J | V1.1 L.C-J | V1.1 Z.C-J | V1.1 Z.S-J | V1.1 S.L-J



Benefits

- Zero configuration required
- Easy plug and play installation
- Shields monitoring device from intruders
- 2 Inline taps in a single rack unit
- Media conversion for improved ROI

Features

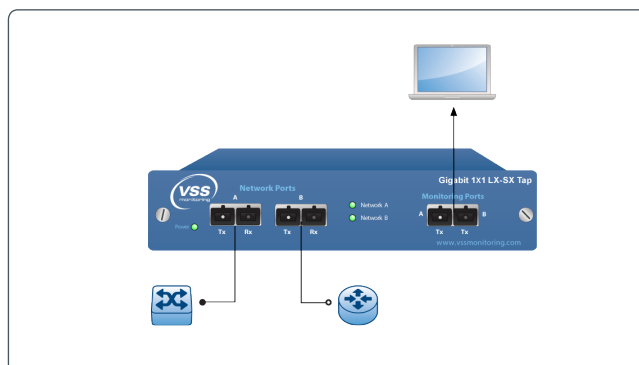
- Network speed: 1 Gbps
- Media conversion
- Small footprint
- LinkSafe™ and vAssure™ for copper network reliability and ensuring proper spanning tree failover

v1x1 Converter Taps

Converter taps enable monitoring of input and output streams at line rate. VSS Monitoring takes the common converter taps to a new level with vAssure and LinkSafe to ensure the highest availability and stealth in monitoring.

In the past, Network Operators have relied on mirrored ports as a method for collecting data from various sources; however the limitation of approximately 2 Gigabits of traffic prevent the high volume monitoring that they wish to have. In addition, networks have been built with resiliency and redundancy as the highest priority. These two factors represent the challenges with monitoring and high availability.

vAssure For Gigabit copper Ethernet networks, vAssure provides minimal failover (less than 150ms), and zero downtime. Gigabit copper taps, due to the Ethernet standard, cannot be 100% passive – some amount of failover time will always apply. However, VSS Monitoring’s proprietary technology for Gigabit copper reduces normal failover time (300ms-3s) to 50-150ms, which registers as merely noise on the wire, resulting in no link loss or spanning tree reconfiguration. The Spanning Tree Protocol was designed to route with redundant links, but minor link outages (like those caused by non-VSS taps) can cause Spanning Tree Protocol to converge and rediscover local devices. The convergence time can be several minutes long. A minor outage of a single link can cause a major outage. This virtually seamless failover is achieved out-of-the-box, without any configuration required of the end user.



LinkSafe VSS Monitoring's LinkSafe feature enables copper link failures to be observed by network elements on both sides of the Tap, thereby enabling routers and switches to execute redundancy whenever such failures occur. With other vendors' Taps, when a link drops, the Tap becomes a point of failure by not making the network element (on the Tap's opposite side) aware of the dropped link. The effect of this is that the Tap continues to accept incoming packets on one side despite not being able to forward the packets to their destination.

LinkSafe removes the point of failure by communicating any occurrence of failure to the Tap's opposite link that, in turn, enables both network elements to reroute packets through redundant ports. Once a link failure has occurred, the Tap continues to sense both links so as to reestablish the primary connection when the links

become available again. VSS monitoring is the proud manufacturer of the World's first and only truly fail-safe Gigabit Copper Tap.

Product Description

The v1x1 Converter Tap allows the uninterrupted pass through of full duplex data over selected copper or fiber network (see available configurations below). Decoding the network signals this device converts the data and electronically replicates an exact copy (including line errors) to two transmit-only monitoring ports. A user is therefore able to monitor a full duplex stream with a monitoring device of their choice thus leveraging the monitoring flexibility and improving ROI for the available card on the IDS and / or Analyzer.

Technical Specifications

Mechanical						
Unit Type:	V 1.1 C.SJ	V 1.1 S.CJ	V 1.1 L.CJ	V 1.1 Z.CJ	V 1.1 Z.SJ	V 1.1 S.LJ
	TX -> SX	SX -> TX	LX -> TX	ZX -> TX	ZX -> SX	SX -> LX
Total Weight:	2.5 lb. / 1.3 kg.					
Size:	8.25" (w) x 7.5" (d) x 1.75" (h) / (209mm x 190mm x 44mm)					
Network Ports:	(x2)					
Monitor Ports:	(x2)					
Environmental						
Temperature:	0 – 45 degrees C (operating); -20 – 100 degrees C (storage)					
Humidity:	5% – 95%, non-condensing					
Data						
Rates:	1 Gbps					
Types:	Gigabit Ethernet, 1000Base-T, 1000Base-SX, 1000Base-LX, 1000Base-ZX					
Propagation Delay						
Network Cable Distance:	100M					
Network:	< 1.2 Packets (copper network)					
Optical						
Connector Type:	SC					
Fiber Types:	SX LX ZX					
Sensitivity:	-17dBm (max. average)					
Power						
DC Voltage: -40 to -72V	5W					
AC Voltage: 90 to 264V	5W					



Network Visibility. Optimized.

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VSS Monitoring, Inc. is the world's leading innovator of Distributed Traffic Capture Systems™ and network taps, focused on meeting the rapidly evolving requirements of security and performance conscious network professionals. Distributed Traffic Capture Systems herald a new architecture of network monitoring, one which fundamentally improves its capability and price-performance.

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