



# v1 x2 Aggregation Tap

V 1.2 C.C-F-A | V 1.2 L.C-J-A | V 1.2 L.L-J-A | V 1.2 S.C-J-A  
 V 1.2 C.S-J-A | V 1.2 S.S-J-A | V 1.2 Z.C-J-A



## Benefits

- Aggregation reduces required ports on monitoring devices
- Easy plug and play installation
- Shields monitoring device from intruders
- 2 Inline taps in a single rack unit
- Onboard memory prevents burst traffic overflow

## Features

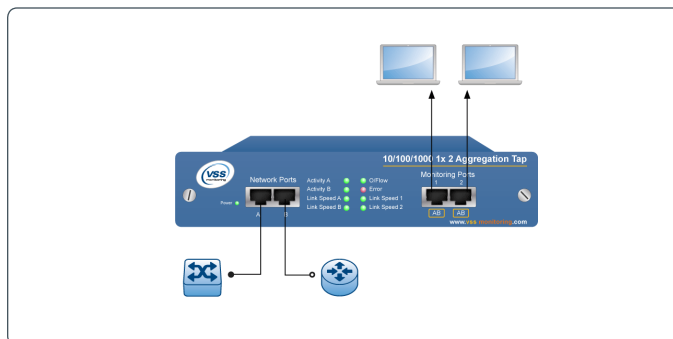
- LinkSafe™ and vAssure™ for copper network reliability and ensuring proper spanning tree failover
- Small footprint
- Media conversion on selected units

## Aggregation Taps

Aggregation Taps enable the user to monitor a full duplex network (including any existing line errors) on a single transmit-only monitoring port. Our series of v1x2 Aggregation Taps allow up to 2 monitoring devices to be used simultaneously. In addition to the aggregation feature, available media conversion on selected units allow even further ROI gain on your monitoring devices.

VSS Monitoring takes the common Aggregation Tap to a new level with vAssure and LinkSafe for copper networks, plus media conversion and built-in data burst buffering, to ensure the highest availability and stealth in monitoring. Furthermore, our Aggregation Taps guarantee the preservation of packet order during aggregation.

**vAssure** For Gigabit copper Ethernet networks, vAssure provides minimal failover (typically 30-60ms), 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 30-150ms, 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.

## Technical Specifications

Mechanical								
Unit Type:	V 1.2 C.C-F-A	V 1.2 C.S-J-A	V 1.2 S.S-J-A	V 1.2 S.C-J-F-A	V1.2 L.L-J-A	V 1.2 L.C-J-F-A	V1.2 Z.Z-J-A	V 1.2 Z.C-J-F-A
Media Conversion:	-	Cu-SX	-	SX-Cu	-	LX-Cu	-	ZX-Cu
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)							
Aggregation Monitor Ports:	(x2)							
Environmental								
Temperature:	0 – 55 degrees C (operating); -20 – 100 degrees C (storage)							
Humidity:	5% – 95%, non-condensing							
Data								
Rates	10/100/1000 Mbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps
Propagation Delay								
Network Cable Distance:	100m							
Network to Network:	10Base-T < 5.4 us, 100Base-T < 616 ns, 1000Base-T < 340ns, Gigabit Fiber < 3.2ns							
Network to Monitor:	10Base-T < 1.24 ms, 100Base-T < 124 us, Gigabit < 13.2 us							
Power (Unit input @5V)								
DC mains: -40 to -72V	10W		7W		9W			
AC mains: 90 to 264V	10W		7W		9W			
Optical								
Sensitivity:	N/A		< -20 dBm		< -20 dBm		< -24 dBm	
Available Media:	SX, LX , ZX, media conversion (e.g.: SX to LX)							
Monitor Output Power:	N/A	> -10 dBm	> -10 dBm	N/A	> -10 dBm	N/A	> -10 dBm	N/A

\*Not including splitter loss



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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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