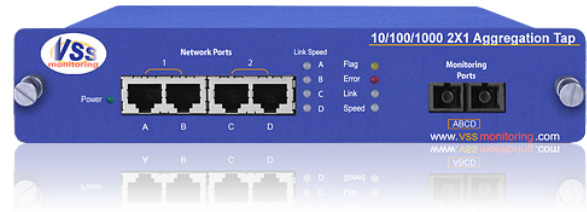
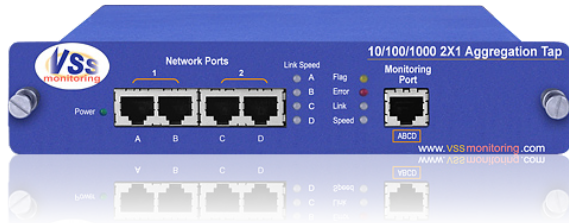




# 2x1 Aggregation Tap

V 2.1 C.C-F-A | V 2.1 C.L-FJ-A | V 2.1 C.S-FJ-A | V 2.1 C.Z-FJ-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

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

## Aggregation of Multiple Networks

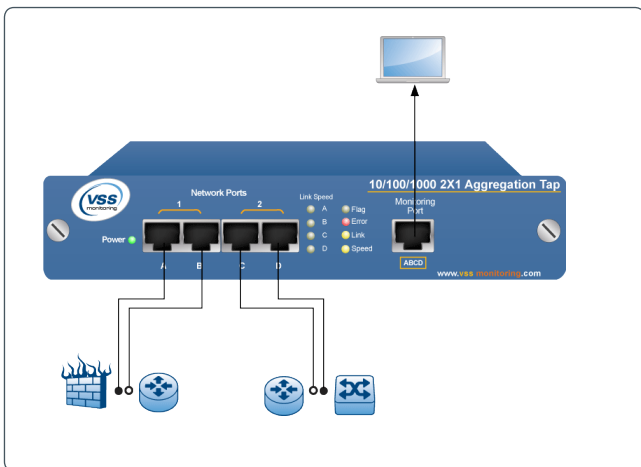
The 2x1 series of aggregation taps are designed to tap 2 full-duplex networks and combine the cumulative traffic onto a single stream for output to a monitoring tool. Aggregation of network traffic reduces the number of interfaces required to monitor any given network. In addition to the aggregation feature, available media conversion on selected units allow further ROI gain on your monitoring device.

VSS Monitoring takes the common Aggregation Tap to a new level with vAssure™, LinkSafe™ and onboard memory to ensure the highest availability and stealth in monitoring. Our Aggregation Taps guarantee the preservation of packet order during aggregation.

**vAssure™** For Gigabit Ethernet with copper interfaces, vAssure™ provides minimal failover (less than 150ms), 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 gigabit copper failover time (300ms-3s) to 50-150ms, which registers as merely noise on the wire, resulting in no link loss or spanning tree reconfiguration.

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 link failures to be observed by network elements both sides of the Tap thereby enabling routers and switches to execute redundancy whenever such failures occur. In 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 and the Tap has enabled redundancy VSS Monitoring's Tap continues to sense both links so as to reestablish the primary connection once the links become available. 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 2.1 C.C-F-A	V 2.1 C.L-F-J-A	V 2.1 C.S-F-J-A	V 2.1 C.Z-F-J-A
Media Conversion:	-	TX-LX	TX-SX	TX-ZX
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:	(x4)			
Aggregation Monitor Ports:	(x1)			
Performance				
Full line rate:	1 Gbps			
Environmental				
Temperature:	0 – 55 degrees C (operating); -20 – 100 degrees C (storage)			
Humidity:	5% – 95%, non-condensing			
Data				
Rates	10/100/1000 Mbps	10/100/1000 Mbps (Net) 1 Gbps (Monit)	10/100/1000 Mbps (Net) 1 Gbps (Monit)	10/100/1000 Mbps (Net) 1 Gbps (Monit)
Propagation Delay				
Network Cable Distance:	100M			
Network:	< 1.2 Packets			
Power				
DC:	1.8A @ 5V DC, 9W, Max input			
AC:	90-240 V AC, 50-60 Hz, 15W Max			
Optical				
Available Media:	Gigabit SX, LX, or ZX on the monitoring side			



Network Visibility. Optimized.

USA  
(Corporate HQ)  
+ 1 650 697 8770 phone  
+ 1 650 697 8779 fax  
38 Adrian Court  
Burlingame, CA 94010  
USA

Japan  
+ 81 422 26-8831 phone  
+ 81 422 26-8832 fax  
T's Loft 3F, 1-1-9,  
Nishikubo, Musashino,  
Tokyo, 180-0013  
Japan

China  
+ 86 10 6563-7771 phone  
+ 86 10 6563-7775 fax  
C519, 5 Floor,  
CBD International Tower  
16 Yong'An Dong Li,  
Beijing, China 100022

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.

VSS, Distributed Traffic Capture System, vAssure, LinkSafe, vStack+ and Distributed Tap are trademarks or registered trademarks of VSS Monitoring, Inc. in the United States and other countries. Any other trademarks contained herein are the property of their respective owners.