

NETWORK SECURITY AND VISIBILITY SOLUTIONS

IntellaFlex XR



Enterprise-Class Network Visibility Fabric

- » Superior packet aggregation technology
- » End-to-end network visibility
- » Monitor 10G, 40G and 100G links with 1G tools
- » Share monitoring and security tools
- » Reduce capital equipment and operational costs

Packet Aggregation Technology for Complete Network Visibility



Single-blade chassis featuring an IntellaFlex XR Packet Aggregator blade.

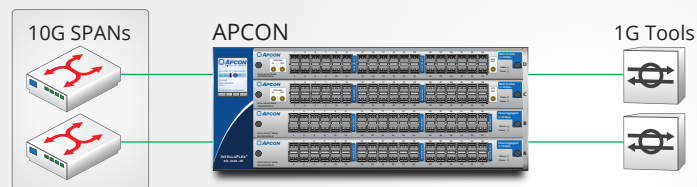
FEATURES

- » Enterprise-class architecture and security
- » Most scalable solution — five chassis sizes ranging from 1RU to 14RU
- » Interchangeable family of blades that work across chassis
- » High density 504 ports of non-blocking 10G in 14RU
- » 40G or 100G trunking between switches allows scalability to thousands of ports
- » Advanced multi-stage filtering
- » Convenient single pane of glass management

Visibility at Every Layer of the Network

With APCON's packet aggregation switching technology, network managers can share an inventory of expensive monitoring devices — often distributed across multiple locations — while preventing oversubscription and data loss.

Data from multiple sources is aggregated, filtered and directed to performance, application and security tools instantly, while a secure web interface provides a centralized method of controlling network monitoring activity.



Maximize tool investments and extend the life of 1G and 10G tools.

WHY CHOOSE INTELLAFLEX XR?

Four strategic advantages separate the enterprise-class IntellaFlex XR solution from the competition



Scalable Integrated Chassis

IntellaFlex XR offers the most scalable architecture available on the market, eliminating the need to daisy-chain multiple devices together.



High Availability

The integrated IntellaFlex XR system features an independent data plane and control plane — resulting in the ability to maintain traffic in the event of component failure.



Greater Connectivity

Any ports on the switch not being used for aggregation can still be used for one-to-one and one-to-many connections.



Software Flexibility

APCON offers a standard graphical user interface for all products. The web-based management software is intuitive by design, enabling fast and accurate connections across the network from a single seat.

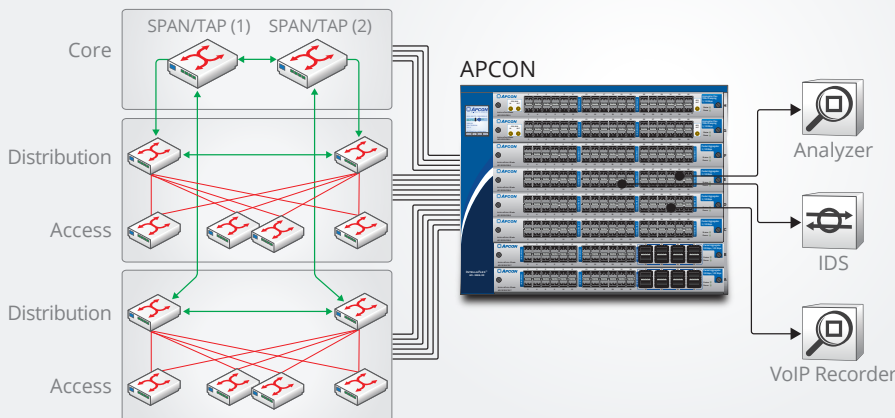
Eliminate SPAN Port Contention



One-to-Many Connectivity

Multicast data from a SPAN to multiple tools, allowing different stakeholders to view the same data with different sets of tools.

Total Network Visibility



Many-to-One and Many-to-Many Connectivity

Aggregate a series of SPAN or TAP links, filter the traffic for specific criteria such as the IP or MAC address, and output to a designated analysis device. Take those same links, adjust the filters as desired and send them to multiple analysis devices at the same time to achieve many-to-many connectivity.

Monitor 10G, 40G and 100G Network Segments with 1G Tools

Data center managers face a growing set of challenges — including the need to effectively monitor 1G, 10G, 40G and 100G network segments. This trend is driving the need for organizations to invest in more expensive monitoring devices, however, the reality is that engineers often have to rely on 1G monitoring tools due to budget constraints and existing investments. Given this reality, many organizations are seeking ways to use the existing array of 1G tools to monitor both the 1G network infrastructure as well as the 10G, 40G and 100G links.

APCON created the IntellaFlex family to facilitate scalable network monitoring of mixed 1G, 10G, 40G and 100G networks using 1G devices. This solution offers up to 504 ports of configurable 1G or 10G Ethernet in a single chassis — the highest port count available in 14RU.

High Availability, Low Latency Scalable Visibility Technology

APCON IntellaFlex XR Family of Chassis and Blades

A key feature in APCON's enterprise architecture is fault-tolerant dual controller cards. Unlike single controller switches that can halt network operations during a failure, the IntellaFlex XR has high availability failover, enabling continuous monitoring of enterprise class production networks.

IntellaFlex XR switches are modular, offering redundant hot-swappable power supplies and field-replaceable fans. They also provide remote access for multiple users through an embedded web interface.

The IntellaFlex XR monitoring switches are available in a range of chassis sizes, which share a common family of blades and allow network managers to customize their mix of ports. Save costs by utilizing smaller chassis in lower port count locations and larger chassis for higher density requirements.

Scalability and Capacity

IntellaFlex XR switches support up to 14 IntellaFlex blades, offering a total of 504 ports of configurable 1G/10G Ethernet in a single 14RU chassis.

IntellaFlex XR also offers up to 280 ports of 40G Ethernet for inter-switch trunking — designed to achieve the scalability required for larger network infrastructures.

With an architecture specifically designed so that all of the components work in concert, IntellaFlex XR offers data center managers the most scalable platform available on the market.

IntellaFlex 3504-XR 14RU chassis with 14 36-port IntellaFlex 10G blades offers the highest 10G density in a single chassis.

A

1-Blade XR Chassis
Up to 36 ports

B

2-Blade XR Chassis
Up to 72 ports

C

4-Blade XR Chassis
Up to 144 ports

D

8-Blade XR Chassis
Up to 288 ports

E

14-Blade XR Chassis
Up to 504 ports

Family of Interchangeable Blades Delivers Flexibility



10G Packet Aggregator Blade

36 ports 1G/10G Ethernet



Optical Bypass TAP Blade

24 ports 1G/10G Ethernet includes 5 bypass pairs



10G/40G Packet Aggregator Blade

32 ports — 24 ports 1G/10G and 8 ports 40G Ethernet



Copper Bypass TAP Blade

10 ports 1G/10G Ethernet and 5 100M/1G Copper bypass pairs



40G Packet Aggregator Blade

20 ports 40G Ethernet



IntellaStore® II+ Blades

14 ports — 12 ports 1G/10G and 2 ports 40G Ethernet with packet deduplication, slicing, protocol stripping, time stamping, GRE initiation and termination, traffic capture, and onboard applications



100G Packet Aggregator Blade

4 ports 100G Ethernet



HyperEngine Packet Processor Blade

18 ports — 16 Service Points and 2 ports 40G Ethernet with deduplication, NetFlow generation, tunnel termination, protocol stripping and deep packet inspection



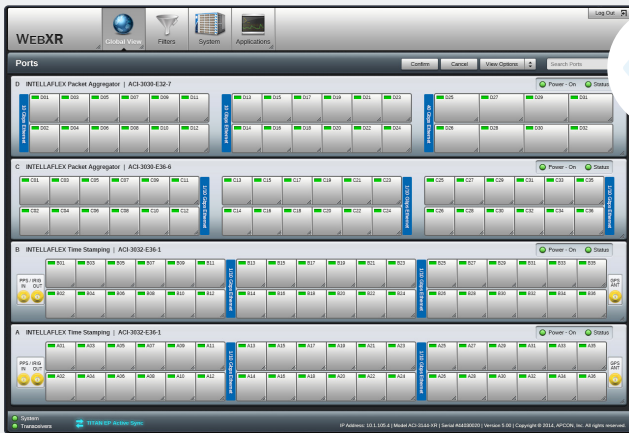
Multi Function Packet Aggregator Blade

36 ports 1G/10G Ethernet with packet deduplication, slicing, protocol stripping, and time stamping

Intuitive Graphic User Interfaces Superior Visibility Management Software

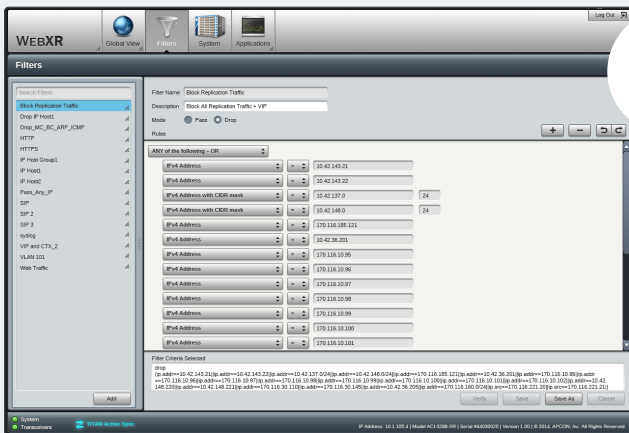
Single-Switch Management Software

APCON's scalable visibility technology is the ideal solution for electronically sharing monitoring and security devices, reducing costs and enhancing **total network visibility**.



Representative view of physical connections and blades.

Easily connect and configure connections.



Create filters with drop-down logic choices, and filter relevant traffic to reduce tool workload.

Re-use filters across system and import/export filters.

WebXR

APCON's embedded web-based graphical user interface is included on all switches. With no software to install, managers can immediately begin configuring port connections in an intuitive environment.

Port connections can be managed using point-and-click on the Ports screen or drag-and-drop on a Visio-style graphic view.

Identification of sources and destinations provides a simplified solution for electronically sharing network monitoring devices.

A patching screen features ports divided into two logical groups to easily make connections between devices. A user-friendly GUI and filtering interface maximize the reach of limited data capture and security resources.

Virtual Network Visibility Solutions

IntellaTap-VM

APCON's VMware visibility solution allows users to capture network traffic flowing between virtual machines. **IntellaTap-VM** is a virtual machine (VM) that filters, encapsulates and forwards virtual traffic and delivers it to your security monitoring tools. Densely populated virtualized environments are a high value target for

attackers, often containing organizations' sensitive data such as passwords, personal data encryption keys and license keys. It is mission critical to maintain visibility over your virtual infrastructure to prevent breaches and data loss. APCON's solution offers an added layer of confidence by **seeing more to secure more.**

vmware®

Hyper-V

KVM

APCON virtual network visibility platforms seamlessly integrate with AWS, VMware, KVM and Hyper-V environments.

Multi-Switch Management Software

Titan

Titan delivers functionality long sought after in enterprise environments: the ability to manage the entire monitoring infrastructure remotely from a single screen and make device changes instantly. Titan enables network managers to control connectivity between monitoring devices and network analysis equipment more efficiently.

This intuitive software tool also offers a centralized point of control for performing critical switch-level maintenance. Routine tasks such as backing up and restoring switch settings, and pushing scheduled software upgrades to every APCON switch in the network can now be managed from a single screen.



Monitor the status of every APCON switch and all active monitoring sessions with Titan. Quickly access details such as device, location, user, filter, job ticket and duration as well as link status and bandwidth.



Enterprise-Class Software Security

APCON's fifth-generation, web-accessible user interfaces have simplified the connectivity of SPANs, TAPs and other data sources to monitoring tools, while also offering a suite of advanced administrative features required in a secure environment. Those include:

- » LDAP, TACACS+ and RADIUS support
- » SNMP v1/2c/3 support
- » SSL & SSH encryption
- » Logic to prevent SPAN port loops
- » Embedded software

Public Cloud Solution

IntellaCloud

APCON's IntellaCloud can access data directly from public cloud instances, filter it in the cloud and then send it directly to security and monitoring tools. This provides flexibility, as data from the cloud can be routed to security and monitoring tools in any other part of an organizations visibility solution.



The cloud-scalable solution offers an interface that simplifies configuration and automates the visibility infrastructure to maintain security in dynamic environments.





About APCON

APCON is headquartered near Portland, Oregon, where it has operated since 1993. APCON's in-house staff manages product design and development, manufacturing, quality assurance and final testing, customer training and long-term servicing of its solutions — whether for a system with a single switch or a global installation that spans across multiple geographical locations and cloud applications.

Want to Know More?

Contact APCON's sales team at **503-682-4050** or via email **info@apcon.com**.