Security Visibility Platform

IntellaStore® II+

🛡 Security   🔍 Forensics   📊 Analytics   ⏱ Performance

Features

- Data monitoring switch with 12 ports 1G/10G and 2 ports 40G

- Aggregate, filter and load balance traffic

- Advanced packet manipulation features

- Capture network activity in real time to fast onboard storage

- Preloaded analysis, security and performance applications

- GRE tunnel initiation and termination

- Titan for centralized management, reporting and notifications

Visibility, Security and Performance

The need to protect critical company information against security threats in today's volatile environment is more crucial than ever. Visibility into the network to monitor and analyze what data is going where and who is gaining access is the first step to protecting your information.

The IntellaStore II+ offers complete network visibility for midsize data centers and remote locations. This security visibility platform combines APCON's world class packet aggregation and filtering technology with advanced features such as integrated traffic capture, storage, and on-board analysis tools. Network engineers can gain visibility into their networks in real-time allowing for earlier security threat detection, investigation and response.

High Speed Packet Monitoring

Twelve ports of 1G or 10G Ethernet and two ports of 40G Ethernet provide high speed data network monitoring. All ports include aggregation, filtering, load balancing, any-to-any connections, and multicast connections. Ten 1G/10G ports also feature APCON's advanced multi-function features including deduplication, protocol stripping, time stamping, and packet slicing. The Multi-Function Pipeline feature allows up to three operations to be performed on packets passing through a single port.
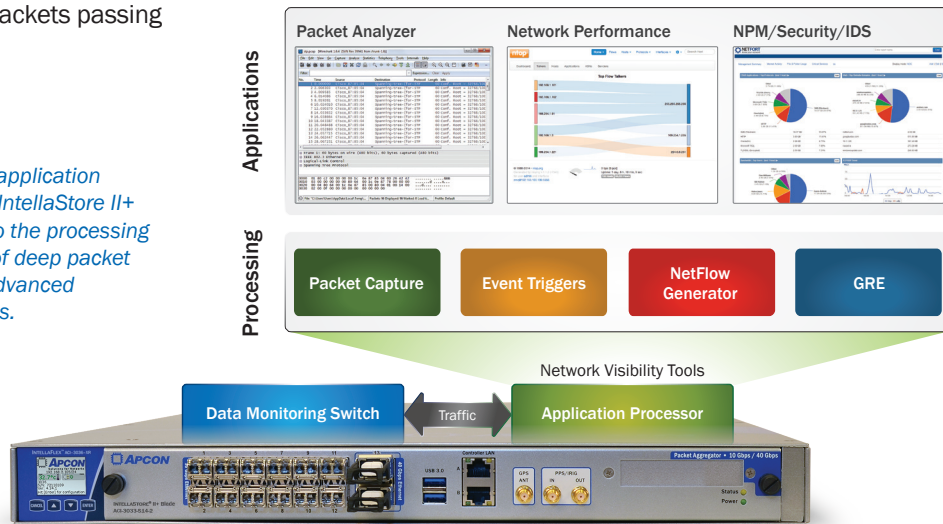
Flexible Data Capture and Storage

With IntellaStore II+, network engineers can select traffic to stream or capture for diagnostics, including setting event triggers based on data ports, address, protocol, time period, bandwidth thresholds, and file size. Fast on-board storage is included for traffic analysis software and data files. Optional NetFlow Generation and PCAP file export is available for external analysis.

On-Board Traffic Visibility Apps

The IntellaStore II+ ships with a dedicated application processor pre-loaded with a Wireshark packet analyzer, ntop traffic analysis tool and a 60-day trial of NetFort LANGuardian for deep packet inspection, all on a Linux KVM software environment. Customers can also install VMware or Microsoft operating systems and 3rd party software applications.

With on-board application processor, the IntellaStore II+ can stand up to the processing requirements of deep packet analysis and advanced monitoring tools.

Identify Potential Security Threats

If there are blind spots on your network, you are vulnerable. The IntellaStore II+ aggregates, filters and optimizes data for packet visibility and feeds forensic and security tools. This allows engineers to capture and analyze data using real-time diagnostics and configure proactive alerts to address issues when they arise. Early detection of a potential security breach can save costly downtime, lost business and hefty penalties.

Reduce Network Monitoring Costs

Because IntellaStore II+ is a complete integrated network visibility solution optimized for remote or smaller data centers, it is more cost effective than deploying a separate data monitoring switch with costly external analyzer tools. Upfront costs are reduced and installation and operation is simplified. Data can also be aggregated from multiple IntellaStore II+ sources to efficiently monitor information from multiple locations, reducing network monitoring costs.

Quickly Resolve Complex Issues

The IntellaStore II+ supports multiple on-board diagnostic tools so engineers have on-demand access to traffic diagnostic applications including network performance, security, packet analyzer and application specific tools. By providing visibility to the data and optimizing the data to feed their tools, engineers can identify and resolve issues faster. They can also remotely diagnose issues with immediate access to data, saving valuable time compared to scheduling an onsite tool cart connection and waiting for data.

Optimize Analysis Tool Performance

IntellaStore II+ includes APCON's advanced filtering, deduplication, and packet slicing dramatically reducing traffic to tools up to 55%, effectively doubling analysis tool capacity. Using the packet slicing feature to remove the packet payload further increases tool performance and ensures data privacy for compliance to regulations such as HIPAA and PCI. Time stamping incoming packets enables latency measurement tools to monitor transaction performance and facilitate analysis of traffic delays.

Virtual Network Visibility

IntellaStore II+ provides the ability to aggregate and monitor encapsulated traffic from virtual machines in the network via GRE termination. IntellaStore II+ provides high-speed GRE decapsulation and aggregation of up to 10Gbps processing for forwarding of virtual network traffic to one or more monitoring tools. IntellaStore II+ also provides GRE initiation with the ability to receive incoming traffic flows, encapsulate each packet and redirect the traffic to another destination.

When combined with APCON's IntellaTap-VM, Titan and HyperEngine, IntellaStore II+ provides a unified virtual and physical monitoring solution which enables complete network visibility and improves monitoring tool efficiency.

WebXR graphical user interface simplifies configuration of network monitoring, traffic selection and packet capture for diagnostics. Easily view packet capture throughput, CPU usage, status and capacity with WebXR.
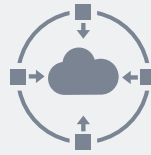
Centralized Management

Keeping your network running efficiently requires complete visibility at all times and access to critical event information. Titan provides a centralized point of network management, key event notifications and logs. To provide critical information where you need it, when you need it.

Embedded Graphical Interface

IntellaStore II+ also features APCON's industry-leading WebXR graphical user interface that simplifies configuration of port connections, monitoring, filtering and traffic streaming or capture for analysis tools. The WebXR graphical interface looks like the system being managed, with point-and-click configuration and diagnostics. IntellaStore II+ also supports industry-familiar CLI and SNMP.

IntellaStore II+ Specifications

Interfaces	10 x 1G Ethernet (bank selectable) or 10 x 10G Ethernet (bank selectable) or 6 x 1G and 4 x 10G Ethernet (mix mode) 2 × 1G/10G Ethernet (individual select) 2 × 40G Ethernet
SFP/SFP+	1000BASE-T/SX/LX, 10GBASE-SR/LR
QSFP	40GBASE-SR4/LR4
Management	2 LAN ports for system and applications (front) 1 LAN port for system (back) Easy-to-use WebXR GUI plus CLI, SNMP and LCD
USB	2 USB 3.0 ports
Timing	GPS and IRIG-B ports (and PTP, NTP software)
IntellaFlex Features (all ports)	Aggregation, Filtering, Load Balancing, Trunking, Any-to-Any and Multicast Connections, Multi Stage Filtering, and Port Tagging
Multi-Function (ports 1–10)	Packet Slicing, Deduplication, Time Stamp, Protocol Stripping, (FabricPath, NVTAG, MPLS, GRE, VXLAN and GTP-U), and Multi-Funciton Pipeline
Capture Channels	2 channels with support for up to 16 streams

Application Processor	IntellaStore II+ — Intel® Xeon® E3 Class
Power	170–200 Watts/580–682 BTU (no SFP/with SFP)
Power Supply	AC: 100 to 240 VAC auto-sensing 50–60 Hz DC: -48 VDC (-40 to -72 VDC) 1 minimum plus optional redundant power supply
Weight	21 lb / 9.5 kg
Size (H×W×D)	1.75 × 17.2 × 25.0 in (4.5 × 43.7 × 63.5 cm) 1RU
Operating Temp	32 to 113 °F (0 to 45 °C)
Storage Temp	-40 to 158 °F (-40 to 70 °C)
Relative Humidity	Operating: 10-85% Storage: 0-95% noncondensing
Safety	UL 60950, EN 60950, CSA C22.2 60950
EMC	EN 55022, EN61000, FCC part 15, ICES 003
Compliance	CE mark and ROHS compliant

Specification Summary

	IntellaStore II+
CPU	Intel® Xeon® E3-1515M v5
Base Frequency	2.8 GHz
Turbo Frequency	3.7 GHz
Number of Cores	4
Number of Threads	8
Memory Capacity	32 GB
Memory Type	DDR4-2133
Graphics	Intel Iris Pro Graphics P580

IntellaStore II+ Certified Tested Applications

Proactive Security and Performance Analysis Tools

IntellaStore II+ supports a wide range of certified security, performance and analyzer applications. By default, IntellaStore II+ comes pre-configured with Linux KVM OS and applications: Wireshark, ntop and LANGuardian (free trial). Or install your own certified application and OS.

Security

Perform real-time threat detection and analysis on network traffic of interest with IntellaStore II+ and a security application.

Forensics

The IntellaStore II+ with a forensics and/or packet analyzer application enables detailed traffic or packet analysis.

Performance

Diagnose network and application performance with IntellaStore II+ and a performance monitoring application.

Contact APCON sales for specific information regarding pre-installed applications.