IntellaFlex XR
Chassis and Blades

> In today's competitive business environment, network uptime and performance are critical. The IntellaFlex XR provides complete network visibility to monitoring and security tools, enabling enterprises to maximize resources.

Features

- Complete network visibility
- Share monitoring and security tools
- 1G, 10G, 40G, and 100G speed ports
- Scalable systems up to 504 Ethernet ports
- Aggregate, filter, and load balance
- Deduplication, packet slicing, time stamping
- Traffic capture, storage and analysis options
- NetFlow generation
- Deep Packet Inspection
- Tunnel termination for virtual network monitoring
- Easy-to-use WebXR GUI and Titan multi-switch management

IntellaFlex XR for Scalable Intelligent Network Monitoring

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

The IntellaFlex XR network monitoring switch is the solution to enterprise-grade requirements in the data center. IntellaFlex XR network monitoring switches deliver up to 504 non-blocking 10 Gbps Ethernet ports, and port speeds ranging from 100M to 100G Ethernet.

IntellaFlex XR Chassis Family

The IntellaFlex XR 14RU, 8RU, 4RU, 2RU and 1RU chassis

Together with flexible monitoring blades, IntellaFlex XR offers the broadest range of advanced network monitoring features including time stamping, packet slicing, Multi Stage Filtering, data rate conversion, protocol stripping, load balancing, NetFlow generation, pattern matching, and tunnel termination.
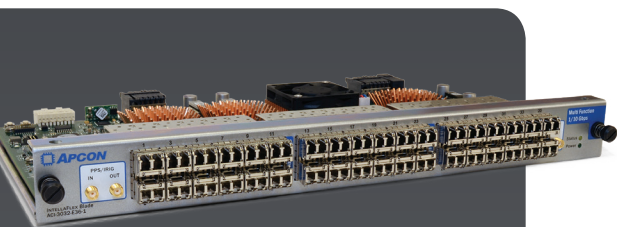
Multi Function Blade

The high-density 36-port IntellaFlex XR Multi Function blade offers the most flexibility in packet deduplication, protocol stripping and tagging, configurable packet slicing and time stamping. Additionally, a full set of IntellaFlex XR network monitoring features is included with no additional per-port licensing.
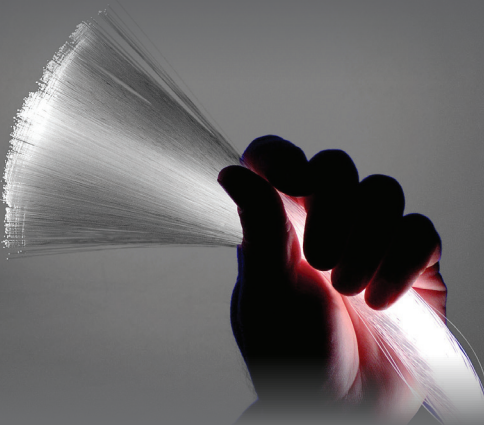
100G Ethernet Monitoring

IntellaFlex XR makes it easy to monitor high-speed networks, including 100G Ethernet, with existing security and performance monitoring tools.

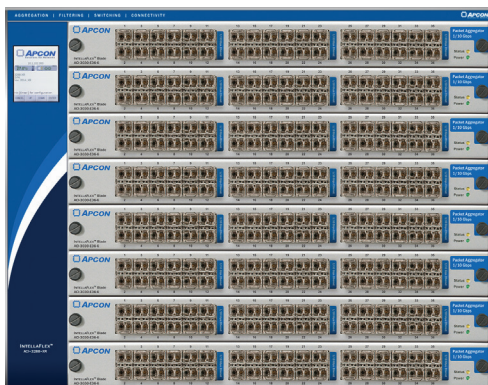Contact APCON for more information at 1−800−624−6808 or apcon.com.
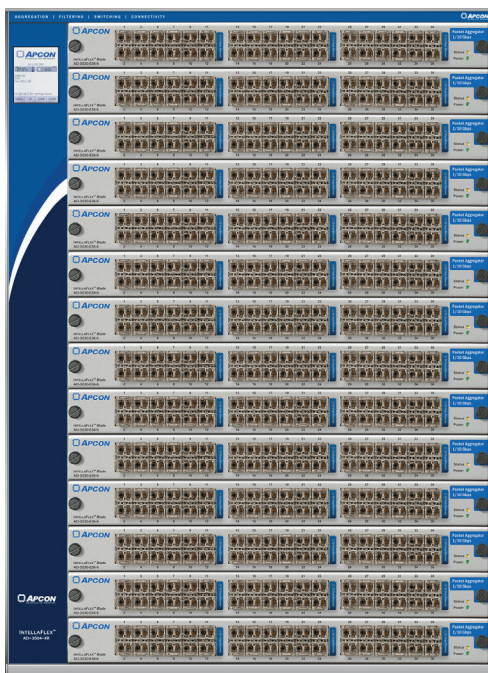
1-Blade Chassis
Up to 36 ports

2-Blade Chassis
Up to 72 ports

4-Blade Chassis
Up to 144 ports

8-Blade Chassis
Up to 288 ports

14-Blade Chassis
Up to 504 ports

IntellaFlex XR Chassis Specifications

Throughput	Up to 5.04 Tbps switching (360 Gbps per blade) 1G up to 100G Ethernet switching architecture
High Density	Up to 504 non-blocking 10G ports in 14RU
Redundancy	Controllers, power supplies, and fans
Hot Swappable	Controllers, power supplies, blades and optics
XR Compatibility	Controllers, power supplies and blades work on all XR chassis
Software	Common software across all XR chassis Easy-to-use WebXR GUI plus CLI, SNMP and LCD
Power Supply	AC: 100 to 240 VAC auto-sensing 50-60 Hz DC: -48 VDC (-40 to -72 VDC)
3504-XR	4 minimum plus 4 redundant power supplies (optional)
3288-XR & 3144-XR	2 minimum plus 2 redundant power supplies (optional)
3072-XR & 3036-XR	1 minimum plus 1 redundant power supply (optional)
Chassis Power 3504-XR	600 Watts / 2047 BTU (no blades installed)
Chassis Power 3288-XR	350 Watts / 1194 BTU (no blades installed)
Chassis Power 3144-XR	250 Watts / 853 BTU (no blades installed)
Chassis Power 3072-XR	125 Watts / 427 BTU (no blades installed)
Chassis Power 3036-XR	120 Watts / 409 BTU (no blades installed)
Chassis Weight 3504-XR	160 lbs / 73 kg (fully loaded with 14 36-port blades and SFPs)
Chassis Weight 3288-XR	82 lb / 37.2 kg (fully loaded with 8 36-port blades and SFPs)
Chassis Weight 3144-XR	46 lb / 20.9 kg (fully loaded with 4 36-port blades and SFPs)
Chassis Weight 3072-XR	32 lb / 14.7 kg (fully loaded with 2 36-port blades and SFPs)
Chassis Weight 3036-XR	21 lb / 9.5 kg (fully loaded with 1 36-port blade and SFPs)
Chassis Size 3504-XR	24.5 × 17.2 × 25.0 in (62.2 × 43.7 × 63.5 cm) 14RU
Chassis Size 3288-XR	14.0 × 17.2 × 25.0 in (35.6 × 43.7 × 63.5 cm) 8RU
Chassis Size 3144-XR	7.0 × 17.2 × 25.0 in (17.8 × 43.7 × 63.5 cm) 4RU
Chassis Size 3072-XR	3.5 × 17.2 × 25.0 in (17.8 × 43.7 × 63.5 cm) 2RU
Chassis Size 3036-XR	1.75 × 17.2 × 25.0 in (4.5 × 43.7 × 63.5 cm) 1RU
Operating Temp	32 – 113 °F (0 – 45 °C)
Storage Temp	-40 – 158 °F (-40 – 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, RoHS compliant
Security	FIPS 140-2 Level 2 Validated

Part Number	Description
ACI-3504-XR-[AC,DC][-R]	14 Blade Chassis, 4 Power Supplies, 1 or 2 Controllers
ACI-3288-XR-[AC,DC][-R]	8 Blade Chassis, 4 Power Supplies, 1 or 2 Controllers
ACI-3144-XR-[AC,DC][-R]	4 Blade Chassis, 2 Power Supplies, 1 or 2 Controllers
ACI-3072-XR-[AC,DC][-R]	2 Blade Chassis, 1 Power Supply, 1 or 2 Controllers
ACI-3036-XR-[AC,DC]	1 Blade Chassis, 1 Power Supply, 1 Controller
ACI-3100-[AC,DC]	Extra AC or DC Power Supply for Redundancy

Key: [AC,DC] indicate AC or DC power; [-R] include -R for redundant controller

Why Choose APCON?

APCON's strategic advantages separate the IntellaFlex XR network monitoring switch from the competition.

Innovation

- Modular switch design based on large" enterprise data center requirements

- Patented aggregation and iltering" technology

- Advanced WebXR graphical user interface

- Unique Titan multi-switch"management software

- Common software and hardware across all" chassis simpli ies operations

Reliability/Redundancy

- Redundant controller and power supplies

- Separate data and control plane architecture maintains connections during controller swap

- Hot-swappable power supplies, blades, controllers, transceivers

Port Density and Scalability

- Five sizes of chassis from 1RU to 14RU

- Up to 504 ports in 14RU

- Up to 5.04 Tbps throughput capacity

IntellaFlex Blades

10G Packet Aggregator Blade | 36 ports :: 100M/1G/10G Ethernet

10G/40G Packet Aggregator Blade | 32 ports :: 24 ports 100M/1G/10G and 8 ports 40G Ethernet

40G Packet Aggregator Blade | 20 ports :: 40G Ethernet

100G Packet Aggregator Blade | 4 ports :: 100G Ethernet

Multi Function Packet Aggregator Blade | 36 ports :: 1G/10G Ethernet with packet deduplication, slicing, protocol stripping, and time stamping

IntellaStore® II+ Blade | 14 ports :: 12 ports 1G/10G and 2 ports 40G Ethernet with traffic capture and storage, on-board applications, packet deduplication, slicing, protocol stripping, time stamping, GRE initiation and termination

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

Optical Bypass TAP | 24 ports :: 1G/10G Ethernet includes 5 bypass pairs

Copper Bypass TAP | 5 pair 100M/1G Copper bypass :: 10 ports 1G/10G Ethernet

Blade Specifications

IntellaFlex XR Compatible Blades

Interfaces	
SFP/SFP+	1000BASE-T/SX/LX, 10GBASE-SR/LR
QSFP	40GBASE-SR4/LR4
QSFP28	100GBASE-SR4/LR4
Blades Power	150-320 Watts / 512-1092 BTU per blade
Blade Performance	All ports line rate > 200 byte packets
XR Backplane	360 Gbps backplane connectivity per blade 400 Gbps connectivity for 100G blade
XR Base Features	Aggregation, Filtering, Load Balancing, Any-to-Any and Multicast Connections, Multi Stage Filtering, and Port Tagging
Multi-Function	
ACI-3032-E36-1	Packet Slicing, Deduplication, Time Stamp, Protocol Stripping (FabricPath, VNTag, MPLS, GRE) Timing options GPS, IRIG-B, PTP, NTP
IntellaStore® II+	
ACI-3033-S14-1 (II) ACI-3033-S14-2 (II+)	Traffic capture and storage, on-board traffic visibility applications
HyperEngine	
ACI-3033-E02-1	Deduplication, NetFlow generation, tunnel termination, protocol stripping and deep packet inspection

Part Number	Description
ACI-3030-E36-6	IntellaFlex 36 Port 100M/1G/10G Packet Aggregator
ACI-3030-E32-7	IntellaFlex 24 Port 100M/1G/10G and 8 Port 40G Packet Aggregator
ACI-3030-E20-1	IntellaFlex 20 Port 40G Packet Aggregator
ACI-3011-E04-100	IntellaFlex 4 Port 100G Packet Aggregator
ACI-3032-E36-1	IntellaFlex 36 Port 1G/10G Multi Function
ACI-3033-S14-2	IntellaStore® II+ Monitoring Appliance
ACI-3033-E02-1	HyperEngine Packet Processor
ACI-3030-T05-M1/S1	IntellaFlex Optical Bypass TAP
ACI-3030-T05-C	IntellaFlex Copper Bypass TAP Blade