

CROSSBEAM X-SERIES X60 & X80-S

BENEFITS:

- Utilize best-in-class applications to fit your business and maximize security
- Adapt security performance and scaling to fit your business
- Lower total cost of ownership with dramatic network consolidation and energy consolidation
- Extend hardware capital depreciation cycles to 5+ years
- Decrease downtime with self-healing fully modular platform

HIT THE RESET BUTTON

Most network security suppliers push pre-packaged platforms. At Crossbeam, we take a different approach. We know every company is different - and that means your security should be, too. That's why we created the X-Series - An open adaptable platform.

The X-Series integrates superior network processing together with exceptional application processing on an open architecture - which means you get to choose best-in-class applications to run on the platform to maximize your security - protecting the assets, brand, and customers - that is what Crossbeam provides.

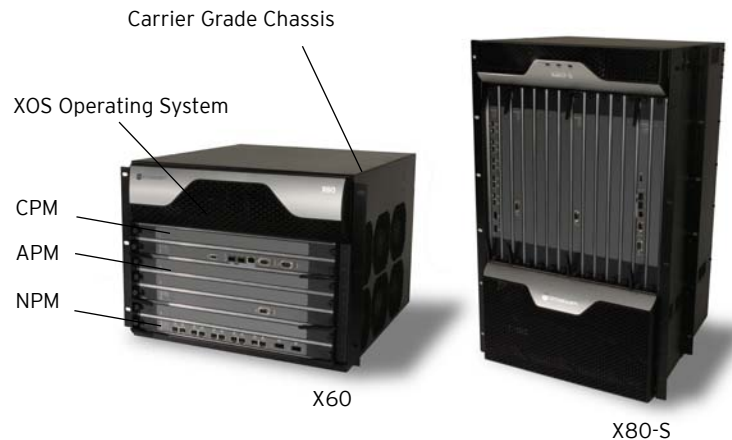
The secret to the platform is that it's actually a Virtual Infrastructure or "network-in-a-box" that provides a responsive system that is change-ready to your application and performance needs - Our Virtual Infrastructure delivers exceptional performance by leveraging every ounce of processing resource and maximizing system life.

The X-Series allows enterprises and service providers to consolidate network infrastructure (switches, load balancers, patch cabling, and power cords) and appliances supporting security applications. It dramatically simplifies deployment and on-going management. The net effect is that you can consolidate 100:1 devices in the network. That means fewer devices to manage, a smaller footprint in the data center and of course a lower cost of ownership.

The system is designed using five components:

- (1) Carrier grade chassis
- (2) Network Processor Module (NPM)
- (3) Application Processor Module (APM)
- (4) Control Processor Module (CPM)
- (5) XOS Operating System

All working together to create our open adaptable platform built from the ground up with no single point of failure.



The most powerful innovation however is our X-Series Operating System (XOS). At Crossbeam, we believe the secret to a successful platform is its operating system. That's why we have spent the last 10 years perfecting our creation.

We built an operating system that allows multiple best-of-breed applications to live on the same platform working together seamlessly, and with the ability to centralize control and visibility of the entire system. 600 person-years of effort later, XOS is in use by some of the largest banks, service providers, mobile operators, schools, and governments around the world. With XOS, a Virtual Infrastructure is created allowing customers to move, add, and change applications onto the same hardware within minutes and to do so without fear to downtime.

All X60 & X80-S platforms can be managed centrally with our Crossbeam Network Management System (XMS).

CHASSIS SPECIFICATIONS:

CHASSIS	X60	X80-S
Type	Fully Modular	Fully Modular
Physical Dimensions	Dimensions (H x W x D): 13.5 x 17.5 x 19 in (34.3 x 44.4 x 48.2 cm) 8 rack units Front Rack Mountable Standard 19" Racks	Dimensions (H x W x D): 29 x 17.5 x 17.5 in (76.2 x 44.4 x 44.4 cm) 17 rack units Front Rack Mountable Standard 19" Racks
Weight:	39 lb (17.7kg) - Empty Chassis	100lb (45.5 kg) - Empty Chassis
Power:	100-240 VAC 2,700W Rated Maximum	X80-S AC: 100-240 VAC 5,100W Rated Maximum X80-S DC: 48V DC. 100A
	Up to 2 Hot-Swappable PSUs per System 1,200W 120-240 VAC; 2700W 200-240 VAC	Up to 4 Hot-Swappable PSUs per System 1,200W 120-240; VAC 2700W 200-240 VAC
Cooling	Side to Side Cooling System with Removable Fan Tray	Front to Rear Data Center Cooling System. Removable Fan Trays
Environment	Temperature 0 to 40°C (32 - 104°F); Humidity: 10% - 90% non-condensing	
Status Indicators	Power Supply and Module Active/Failed Status LED, Port Link (NPM, CPM), Minor/Major/Critical Alarm Status LEDs*	
Chassis Regulatory Compliance	RoHS; UL 60950, IEC 60950, FCC 47 CFR Part 15B Class A, EN 55022 : EN 55024, VCCI V-3 : AS/NZS CISPR22; CSA C22.2#60950	
Green IT Compliancy	High efficiency power system up to 91 percent; WEEE Directive, ISO 14001, RoHS Compliant	
Redundancy Systems	Power, Application, Networking and Control Processing Redundancy & Dual box High Availability with other X60/X80-S Chassis	

SYSTEM SPECIFICATIONS:

SYSTEM	X60	X80-S
Network Interfaces	Up to 32 x 1G SFP/10G SFP+	Up to 64 x 1G SFP/10G SFP+
Management Interfaces	Command Line Interface, (SSH, Telnet, Console); Greenlight Element Manager EMS (HTTPS); SNMP v1,2,3 support; Standard Syslog	
XOS (X-Series Operating System) Compatibility	XOS 9.5 or higher	XOS 8.5 or higher
Advanced Routing	Optional Upgrade Pack: Includes PIM Sparse Mode, OSPFv2, RIP-II, and BPG-4, IPv6 support and IPv6 to IPv4 tunneling support. Licensed per X-Series Chassis.	
Module Capacity	Up to 2 NPM, up to 5 APM, up to 2 CPM; Supports up to 7 modules total	Up to 4 NPM, up to 10 APM, up to 2 CPM; Supports up to 14 modules total
NPM Blade Compatibility	NPM-8620; NPM-8650; NPM-96X0	NPM-8600; NPM-8620; NPM-8650; NPM-96X0
APM Blade Compatibility	APM-8650, APM-9600	APM-8600, APM-8650, APM-9600
CPM Blade Compatibility	CPM-9600	CPM-8600, CPM-9600

PERFORMANCE SPECIFICATIONS:

Network Connectivity	320Gbps	640Gbps
Application Processing (IMIX)	67Gbps	135Gbps
Packet Rate (PPS)	27 Million PPS	61 Million PPS
Maximum Connections	100 Million (w/UPG)	100 Million
Connection Setup Rate	165,000 CPS	320,000 CPS

*X80-S Only

Preliminary Subject to change without notice.

ABOUT CROSSBEAM

We improve the sophisticated networks of enterprises, government agencies, and service providers by architecting platforms that are more adaptable, high-performing, reliable, and secure.