



Virtualization.  
Consolidation.  
Simplification.  
**Choice.**

## The Next Generation Firewall with IPS

SOLUTION SHEET

*Sourcefire 3D Sensor™ 4.8 on  
Crossbeam® X-Series*



### CUSTOMER NEEDS, BUSINESS AND OPERATIONAL IMPACTS

Increasingly, a comprehensive security policy mandates the need for enterprises to deploy intrusion prevention systems (IPS) – and in some cases, regulations make it a requirement. However, implementing IPS requires deploying racks of IPS appliances and network switching gear.

Moreover, no single vendor has best-of-breed application offerings in both firewall (FW) and IPS. Furthermore, the scaling needs of each technology are different and generate multi-dimensional requirements. The results are increased network segmentation, network and security services, and cost.

This security appliance sprawl, combined with the variety of technologies utilized, drives the need for a simpler and more effective IPS deployment: the Crossbeam Next Generation Firewall (NGFW). The NGFW represents the convergence of the latest FW and IPS technologies, blending sophisticated application-aware firewalls with IPS that integrates vulnerability assessment and network behavior anomaly.

### THE SOLUTION ARCHITECTURE

Sourcefire 3D Sensor 4.8 deployed on the Crossbeam X-Series Next Generation Security Platform enables organizations to confidently protect their networks. Sourcefire's IPS is based on the SNORT® rules-based detection engine – which can analyze network traffic and block threats – and RNA, which delivers highly detailed real time profiles of network assets, including any configuration, behavior and potential vulnerabilities. Only the X-Series preserves choice by enabling single application scale-out and/or multi-application consolidation into an integrated, high performance, highly available platform.

### THE CROSSBEAM SOLUTION: DIFFERENTIATED VALUE

Sourcefire's 3D Sensor on the Crossbeam NGFW results in dramatic reductions in complexity, as well as gains in productivity and security team effectiveness through its support of network behavior analysis. The ultra-high performance and reliability of the Crossbeam Next Generation Security Platform ensure that network security teams deliver a safe end user experience without sacrificing choice, security, or availability. In addition, the platform delivers new capabilities faster time, with fewer devices, lower cost, and less staff.

## BENEFITS

- ▶ **Uses Infrastructure Efficiently**  
Virtualized network resources and IPS security services to reduce complexity.
- ▶ **Preserves Choice**  
Provides application flexibility without compromising tight integration. Highly adaptable to anticipate future network intrusions.
- ▶ **Reduces Complexity and TCO**  
Massive consolidation of load balancers, IPS, and switches enable significantly lower TCO.
- ▶ **Delivers Groundbreaking Performance of 40 Gbps**  
High performance and scalability via the addition of application processor modules to the X-Series chassis.
- ▶ **Ensures Reliability**  
Jointly engineered, tested, and certified by Sourcefire and Crossbeam, guaranteeing quality and interoperability.



Virtualization.  
Consolidation.  
Simplification.  
**Choice.**

## COMPONENTS OF THE NEXT GENERATION FIREWALL

The Crossbeam X-Series platform uses a patent-pending system architecture that consists of the chassis (X45 and X80) and three hardened components – the Network Processor Module (NPM), the Control Processor Module (CPM), and the Application Processor Module (APM) – resulting in the industry’s most highly available and reliable – as well as best performing – Next Generation Security Platform. The Crossbeam patented XOS™ operating system forms the basis for integrating Sourcefire’s 3D Sensor 4.8 application into the Crossbeam platform.

## SOLUTION TECHNICAL SPECIFICATIONS

### SOURCEFIRE 3D SENSOR ON CROSSBEAM X-SERIES GENERAL SPECIFICATIONS

Specifications	APM-8600	APM-8650
Features Supported	IPS/RNA in-line or passive modes	IPS/RNA in-line or passive modes
Memory	4 GB recommended	8GB standard, up to 16GB optional
HDD Storage	Recommended	Recommended
Operating System	XOS 8.1 or 8.5	XOS 8.5.0

### CHASSIS SPECIFICATIONS

Specifications	X45	X80
Physical	7-slot chassis, front and mid-rack mountable, standard 19” racks; 343mmH x 444.5mmW x 482.6mmD; Weight: 39 lb. (17.7 kg)	14-slot chassis, front and mid-rack mountable, standard 19” racks; 762mmH x 444.5mmW x 444.5mmD; Weight: 100 lb. (45.5 kg), 212 lb. (96.4 kg) fully loaded
Module Support	Up to 2 NPM, Up to 3 APM, Up to 2 CPM	Up to 4 NPM, up to 10 APM and up to 2 CPM
Power	1 – 2 1,200W	1 – 4 1,200W or 2,700W; (X80-DC available)

### SOURCEFIRE MODULAR PLUG-INS

IP Defragmenter	Detect denial of service attacks and fragmentation evasion techniques; Perform target-based analysis to defeat evasion attackers
Application Layer	Detect a variety of anomalies in protocols such as HTTP, RPC, DCERPC, ASN.1, Telnet/FTP, SMTP/POP/IMAP, ARP spoofing, and covert channels

## KEY SOURCEFIRE INTRUSION PREVENTION CAPABILITIES

Application specific attacks	Trojans	Rootkits	Network traffic anomalies
OS-specific attacks	Backdoors	SQL injection	Automated IPS tuning
Botnets	Cross-site scripting	Worms	Network behavior analysis
Zero-day attacks	Denial-of-service	Unauthorized hosts	Attack impact assessment
Protocol tunneling	Instant messaging	Unauthorized applications	Network discovery
Spyware	Peer-to-peer traffic	Unauthorized virtual machines	IT security policy enforcement



### Corporate Headquarters

Crossbeam Systems, Inc.  
80 Central Street  
Boxborough, MA 01719  
Tel: +1 (978) 318 7500  
Fax: +1 (978) 287 4210  
www.crossbeam.com

Crossbeam, Crossbeam Systems, any logos associated therewith are trademarks or registered trademarks of Crossbeam Systems, Inc., in the U.S. Patent and Trademark Office, and several international jurisdictions. All other company, product or service names not owned by Crossbeam mentioned in this document are the property of their respective owners. Copyright © 2008 Crossbeam Systems, Inc. All Rights Reserved. SS\_NGFW\_SRCFR-X\_072909