

We secure the world's largest networks.

# Crossbeam Systems

## C-Series™ High performance UTM



Crossbeam Systems C-Series security switches, built from the same bedrock as the market-leading X-Series, offer comprehensive security applications, high availability, and performance that is perfect for small- to medium-sized businesses, enterprises and extended security deployments, or managed service providers.

C-Series provides firewall, VPN, IPS/IDS, anti-virus, URL filtering, and content scanning as standalone features or combined for unified threat mitigation and at unrivaled performance levels. C-Series is particularly optimized to secure Voice over IP (VoIP) traffic allowing businesses to take advantage of all the benefits VoIP affords.

Crossbeam Systems C-Series security switches have the security, performance, and dependability one expects from the company that secures the world's largest networks.

### Enterprise- and Provider-class UTM

C-Series security switches optimize security applications from the world's leading software vendors, unifying disparate security functions in one device and simplifying network threat management.

Crossbeam C2 and C6 offer multi-function applications, perfect for perimeter, mail, browser, and server protection while Crossbeam C10, C12, C25, and C30 support multiple applications on a single platform for layered security with best-of-breed applications.

**HIGH PERFORMANCE** C-Series security switches drive consistent high performance particularly for VoIP traffic. Used in conjunction with Check Point VPN-1 Power and its powerful VoIP and SIP protection capabilities, makes the solution unbeatable.

**COMPREHENSIVE NETWORK FUNCTIONS** Support for networking functions like multi-link trunking, VRRP, and optional routing capabilities allow C-Series to be transparently inserted into existing networks.

**EASE OF ADMINISTRATION AND MANAGEMENT** Innovative features such as USB-based flash memory support offer ease of deployment, backup, and quick recovery. SecureShore NMS enables mass configuration and maintenance of up to 1,000 C-Series and X-Series devices.

UTM IS "A SECURITY ARCHITECTURE, NOT A CHECK LIST... FLEXIBLE AND EXTENSIBLE... SCALABLE AND MANAGEABLE..."

# Crossbeam C-Series

## Features

### Cutting-edge Technology

C-Series security switches enable enterprises to consolidate multiple security applications onto one device and still enjoy high performance. Or, to deploy dedicated single application switches that deliver market-leading performance.

The power resides in the C-Series operating system (COS) and architecture.

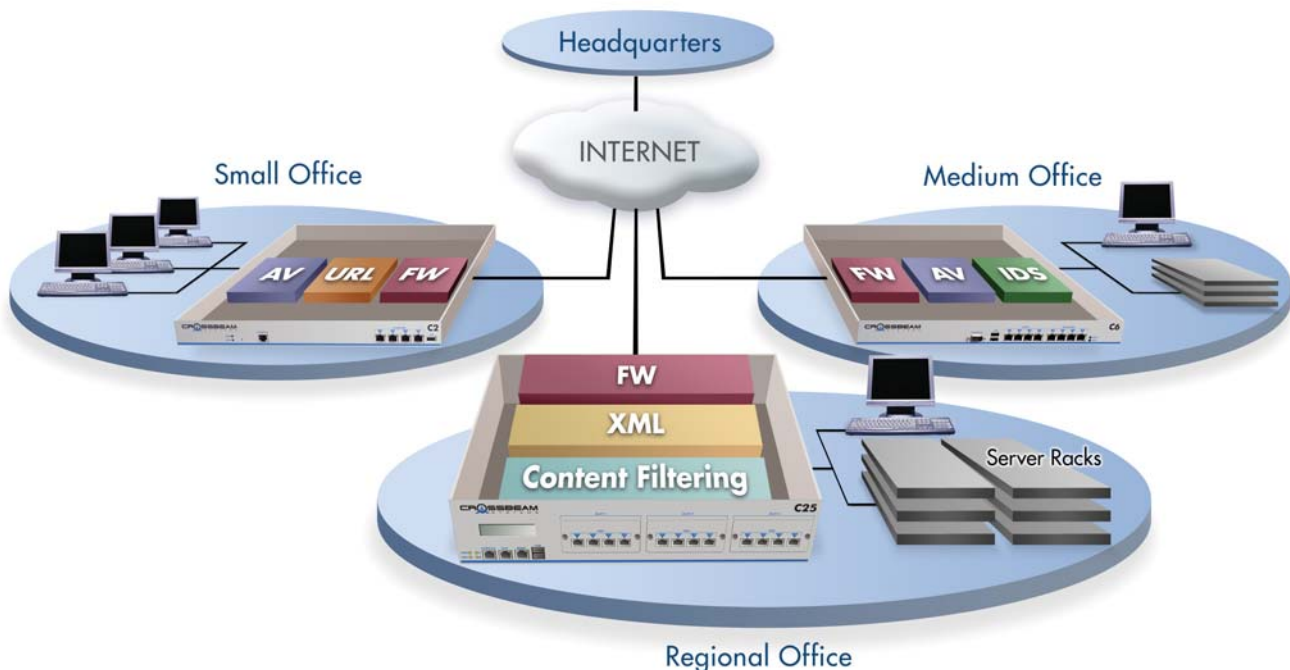
COS, a hardened Linux-based OS with technology such as StreamProtect, Virtual Tap, and flow provisioning — mainstays of X-Series — is the underpinning of flexibility and agility prevalent in C-Series.

StreamProtect enhances performance through a close working knowledge of partner applications, and through “smart” packet processing, ensuring that applications receive just the right traffic at just the right time.

COS simulcasts network streams to the Virtual Tap interface, allowing IDS sensors to run in parallel with the firewall and with no impact to performance. Virtual Tap gives customers an open window into all traffic when troubleshooting network security issues.

COS flow provisioning allows network streams to flow back and forth between security engines in a completely protected environment. This means administrators can preserve policies without compromising the network architecture. For example, Crossbeam C2 and C6, with Check Point VPN-1 UTM, can pass configured traffic between the firewall and the anti-virus engine. Advanced C-Series models can run both Check Point firewall and Trend Micro anti-virus and pass traffic back and forth via a transparent proxy.

C-Series architecture is specifically designed to allow tight application integration so as to quickly meet all network security requirements, both identified and anticipated, and flexible to meet any deployment scenario; as a dedicated device, a multi-function security switch, or as a multi-security application switch.



# Crossbeam C-Series

## Key Benefits

### SECURITY IN THE EXTENDED ENTERPRISE

Crossbeam Systems C-Series security switches excel as part of larger deployments where certain features are vital:

- **VoIP Performance** — As VoIP network traffic increases, fast small-packet performance becomes crucial. COS, in conjunction with Check Point VPN-1 Power, accelerates small-packet processing, resulting in market-leading performance.
- **VoIP Security** — Crossbeam Systems works closely with Check Point to offer a security device that is highly aware of and can participate in VoIP security. The capabilities of Check Point VPN-1 Power include important features such as NAT'ing of SIP, H.323, RTSP and other voice oriented protocols. In addition, VPN-1 Power running on C-Series devices supports VoIP denial-of-service protection by limiting new session setup rates, MGCP, and SCC.
- **Robust VPN Throughput** — All C-Series security switches provide market-leading VPN performance, capable of handling all branch to headquarters encrypted traffic. Additionally, C-Series supports optional hardware modules for high-end encryption demands.
- **Simple Network Integration** — Networking features such as multi-link trunking for aggregation of interfaces, VRRP failover for active/active redundant deployments, dynamic routing (optional), and VLAN support, allow C-Series to be dropped into existing switched or routed architectures with minimal disruption.

### REMOTE MANAGEMENT

Managing security devices in remote locations is always a challenge for administrators. Technical help is often nonexistent and yet sending technicians from headquarters can be expensive and time-consuming. To alleviate these issues, Crossbeam Systems offers several important features.

**USB Configuration** — Crossbeam C2 and C6 are equipped with a USB port allowing for the insertion of a USB-based flash card to ease remote site configuration. An administrator simply creates a default configuration on the USB card and when the device powers up it uses the configuration contained on the USB card. The USB card can be reinserted and the configuration restored should it become corrupted. The USB card adds great flexibility, easing configuration maintenance and backup/restore for disaster recovery.

**Mass Device Management** — Once a device has been installed at a remote location, SecureShore can manage it and up to 1,000 additional devices with such powerful features as bulk configuration templates, patch updating, and backup management.

SecureShore NMS enables mass configuration and maintenance of up to 1,000 simultaneous C-Series and X-Series devices. Once the switch is installed, SecureShore can build and distribute configuration templates, manage backup and centralized OS, and patch distribution.

### LEADING-EDGE PARTNERS

Crossbeam Systems partners with both leading and innovative security vendors, those who drive security application functionality in known areas like firewall, anti-virus, anti-spam, and content filtering, and those who are identifying new security threats, in areas like XML, database, and application server protection, and addressing them today.

Aladdin	eSafe Security
Check Point	NG, NGX, VSX, Connectra, VPN-1 UTM, VPN-1 Power, VPN-1 UTM Power
Forum	XWall
Optenet	Security Suite
Secure Computing	SmartFilter
Snort	Network Intrusion Detection
Sourcefire	Intrusion Sensor, RNA Sensor
Trend Micro	IWSS and IMSS
Websense	Web Security Suite

## C-Series Specifications



Multi-function small branch device, GigE, optimized for Check Point VPN-1 Power & VPN-1 UTM



Multi-function mid-branch device, multi-interface GigE, optimized for Check Point VPN-1 Power & VPN-1 UTM



Multi-application in parallel, branch/managed device, fiber GigE

### SYSTEM SPECIFICATIONS

Physical	Dimensions: 43.5mmH x 426mmW x 365mmD (1.71"H x 16.77"W x 14.31"D); Front mountable standard 19" racks. Weight: 4.8 lb. (2.2kg)	Dimensions: 43.5mmH x 426mmW x 431.8mmD (1.71"H x 16.77"W x 17"D); Front mountable standard 19" racks; Weight: 5 lb. (2.3kg)	Dimensions: 44mmH x 428.6mmW x 360mmD (1.73"H x 16.87"W x 14.17"D); Front mountable standard 19" racks; Weight: 14.3 lb. (6.5kg)
Power	100-240 VAC, 250W	100-240 VAC, 250W	100-240 VAC, 250W
Environment	Temperature: 5°-40° C (41°-104°F); Humidity: 10%-90% non-condensing; Altitude: 3048 m (10,000 ft.)		
Regulatory Compliance	UL 60950; FCC Part 15, Subpart B, Class A; EN 55024; EN 55022; VCCI V-3; AS/NZS 3548:1995; CNS 13438 Class A (test passed;country approval pending); KN22, KN61000-4 Series, TTA. IC-950		
System I/O	1 X USB	2 x USB	
Console Port	1 x RJ45	1 x RS232	1 x RS232
Management Ports	Non-dedicated	Non-dedicated	1 x 10/100/1000 Ethernet
Interfaces	4 x 10/100/1000 Ethernet	4 x 10/100/1000 Ethernet + 4 x 10/100 Ethernet	6 x 10/100/1000 Ethernet OR 4 x 10/100/1000 Ethernet + 2 x 1000 Fibre
Processors	Single CPU	Single CPU	Single CPU
Memory	512 MB STD, 1GB	1GB STD, 2GB optional	1GB STD
Storage	80 GB HDD	80 GB HDD	40 GB HDD
Expansion Slots	NA	1 PCI	1 PCI, 1 PCI-X
UTM Security Engines	Firewall, VPN, IPS, IDS, anti-virus, URL filtering, content filtering		
High Availability	VRRP redundancy, session state synchronization		

### PERFORMANCE SPECIFICATIONS

Firewall	350 Mbps (large packets), 350,000 pps (64-byte packets)	3 Gbps (large packets)	3 Gbps (large packets)
VPN (3DES/AES)	70Mbps / 165Mbps (1450 byte packet)	150Mbps / 215Mbps (1450 byte packet)	80Mbps / 200Mbps
VPN (3DES/AES) with HW Acceleration (optional)		300Mbps / 300Mbps	350Mbps / 420Mbps

### MANAGEMENT SPECIFICATIONS

Element Management	Telnet, FTP, SSH, HTTPS, SSL, SNMPv1, 2c and 3, access control lists, traffic management, secure administrative access – multiple levels, read/write and read-only modes
Network Management	SecureShore NMS (optional). See <a href="http://www.crossbeamsys.com">www.crossbeamsys.com</a> for details.



## C12

Multi-application, multi-port, fiber GigE



## C25

Multi-application, multi-port, fiber GigE, dual power/dual drive, dual power supplies, data center device



## C30i & C30

Multi-application, multi-port, fiber GigE, dual power/dual drive, data center device

### SYSTEM SPECIFICATIONS

Physical	Dimensions: 44mmH x 462.2mmW x 457.2mmD (1.7"H x 16.8"W x 18"D); Front mountable, standard 19" racks; Weight: 26.5 lb. (11.82kg)	Dimensions: 88mmH x 424mmW x 600mmD (3.5"H x 16.7"W x 23.6"D); Front and mid-rack mountable, standard 19" racks; Weight: 44 lb. (20kg)	Dimensions: 90mmH x 435mmW x 635mmD (3.5"H x 17.5"W x 25"D); Front and mid-rack mountable, standard 19" racks; Weight: 32 lb. (14.5kg)
Power	100-240 VAC, 250W	100-240 VAC, 460W	100-240 VAC, 460W
Environment	Temperature: 0°-40° C (32°-104°F); Humidity: 10%-90% non-condensing; Altitude: 3048 m (10,000 ft.)		
Regulatory Compliance	UL 60950; FCC Part 15, Subpart B, Class A; EN 55024; EN 55022; VCCI V-3; AS/NZS 3548:1995; CNS 13438 Class A (test passed; country approval pending); KN22, KN61000-4 Series, TTA. IC-950		
System I/O	2 x USB	2 x USB	
Console Port	1 x RJ45	1 x RJ45	1 x RS232
Management Ports	2 x 10/100 non-dedicated	1 x 10/100 dedicated	2 x 10/100 Ethernet
Interfaces	8 x 10/100/1000 copper or 6 x 10/100/1000 copper + 2GE fiber/copper SFP	Interfaces support varies based on configurations, up to 12 data ports	<b>C30i:</b> Standard version: choice of 10/100/1000 or 4 fiber GE Upgradeable to additional 2-port 10/100/1000 or GE modules. <b>C30:</b> 2 x Gigabit Ethernet fiber or 10/100/1000 Ethernet, 16 x 10/100 Ethernet
Processors	Single CPU	Dual CPU	<b>C30i:</b> Single or Dual CPM Upgradeable to Broadcom Network Processor <b>C30:</b> Broadcom Network Processor, Host Module: Single or Dual CPM
Memory	1GB STD, 2GB optional	2GB STD, 4GB optional	512 MB STD, 1GB, 2GB, 4GB optional
Storage	80 GB HDD	80 GB HDD	40 GB HDD
Expansion Slots	1 PCI	1 PCI	<b>C30:</b> 2 PCI slots for additional port modules or IPSEC/SSL acceleration engine (ACE-S2) <b>C30i:</b> 5 PCI slots for additional port modules or IPSEC/SSL acceleration engine (ACE-S2)
UTM Security	Firewall, VPN, IPS, IDS, anti-virus, URL filtering, content filtering, proxy/cache		
High Availability	Complete system redundancy; VRRP interface redundancy; session state synchronization; dedicated high availability link between systems		

### PERFORMANCE SPECIFICATIONS

Firewall	4 Gbps (large packets)	6 Gbps (large packets)	3 Gbps (large packets)
VPN (3DES/AES)	170Mbps / 400Mbps (1450 byte packet)	200Mbps / 480Mbps (1450 byte packet)	80Mbps / 212Mbps
VPN (3DES/AES) w/ HW Acceleration (optional)			369Mbps / 430Mbps

### SUPPORTED STANDARDS

Element Management	Telnet, FTP, SSH, HTTPS, SSL, SNMPv1, 2c and 3, access control lists, traffic management, secure administrative access – multiple levels, read/write and read-only modes
Network Management	SecureShore NMS (optional). See <a href="http://www.crossbeamsys.com">www.crossbeamsys.com</a> for details.



## About Crossbeam Systems

Crossbeam Systems, Inc., secures the world's largest networks with its pioneering best-of-breed Unified Threat Management (UTM) solutions. Crossbeam enables companies to consolidate their security infrastructures while preserving their security policies, resulting in significant savings in capital and operational expenses. Crossbeam's patent-pending architecture integrates best-in-class security engines such as firewall, virtual private networks, intrusion detection, and content security into high-performance, highly available, self-healing security services switches. The company has tailored security solutions for global corporations, carrier networks, and small to medium-sized enterprises. More information is available at [www.crossbeamsystems.com](http://www.crossbeamsystems.com).

Crossbeam Systems is proud to partner with these best-in-class vendors:



We Secure the Internet.



TREND  
MICRO™



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