

We secure the world's largest networks.

Crossbeam Systems

C-Series™ High performance Unified Threat Management



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

C-Series provides firewall, VPN, IDS, anti-virus, URL filtering, and content scanning as standalone features or combined for unified threat mitigation and at unrivaled performance levels.

C-Series has 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 appliances onto one platform and simplifying network threat management.

The C-Series offers multi-function applications, perfect for perimeter, mail, browser, and server protection while the C12 and C25 support multiple applications on a single platform for layered security with best-of-breed applications.

HIGH PERFORMANCE The C-Series provides high performance across the entire product line, scaling from 350 Mbps to 6 Gbps of firewall throughput. Used in conjunction with Check Point® VPN-1® Power and its diverse VoIP and SIP protection and the C-Series becomes an unbeatable secure voice solution.

MARKET-LEADING APPLICATIONS Crossbeam Systems works closely with leading and emerging security application vendors to ensure full feature support and top-of-the-line performance. Thus, companies can standardize on one secure platform and retain the flexibility to choose the best application for their network.

EASE OF ADMINISTRATION AND MANAGEMENT Innovative features such as USB-based flash memory support for configuration upgrades, deployment, backup, and quick recovery significantly improves device management. SecureShore NMS enables mass device 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 standardize on one security platform, either by deploying multiple security applications onto one device and still enjoying high performance, or by deploying dedicated single application switches that deliver market-leading performance.

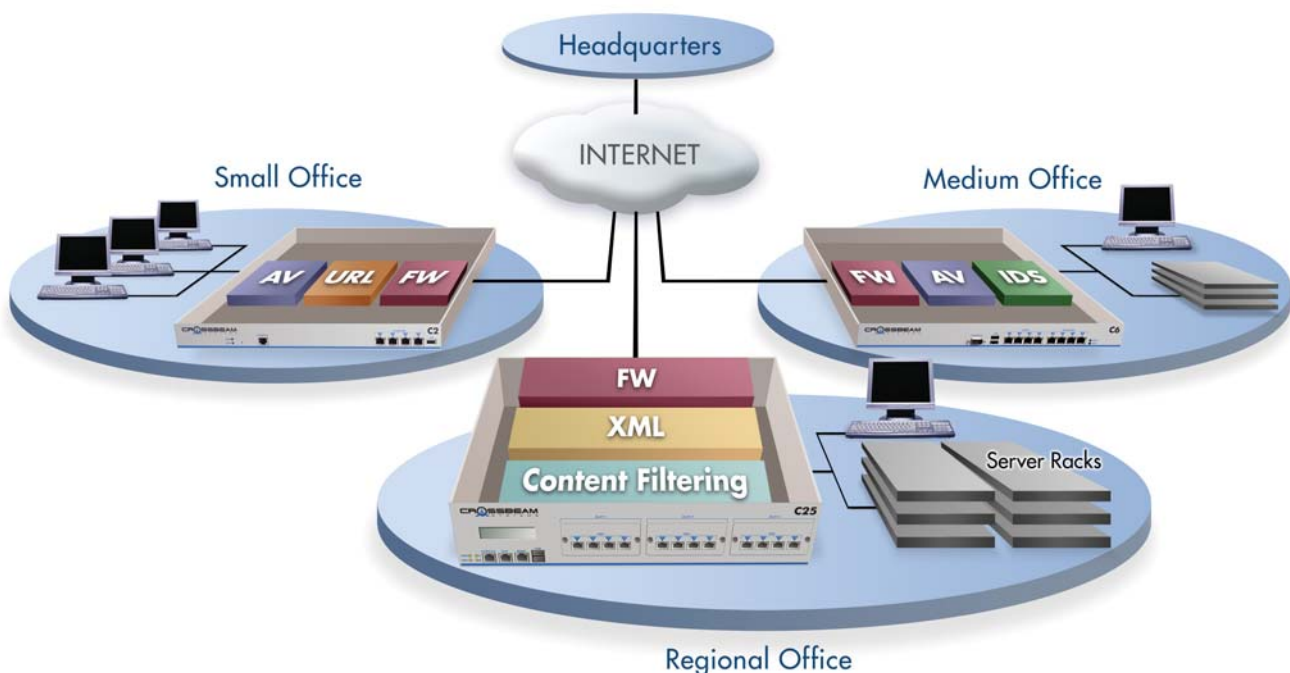
The power resides in the C-Series operating system (COS) and architecture. COS, a hardened Linux-based OS strengthened with X-Series technology such as StreamProtect, Virtual Tap, and flow provisioning — mainstays of X-Series — is the underpinning of flexibility and agility prevalent in C-Series.

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.

C-Series security switches allow network traffic to flow seamlessly between security engines in a completely protected environment. This means administrators can preserve policies without compromising the network architecture. For example, Crossbeam C-Series, 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

C-Series 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, Layer2 bridging, dynamic routing (optional), and VLAN support, allow C-Series to be dropped into existing switched or routed architectures with minimal disruption.
- **Intelligent Bypass** — C6, C12, and the C25 offer optional bypass ports that will "fail open" on either power or application failure, vital in parts of the network where access is as important as security.

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 — C-Series security switch USB ports significantly ease box configuration, administration, and deployment. USB flash memory drives (USB sticks) can be used for storing configurations, for disk backup/recovery, even for remote configurations. An administrator simply creates a default configuration on the USB stick and ships it to the remote site where it is plugged in. Upon reboot, the switch will use the configuration stored on the USB stick.

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, GX, VPN-1 UTM SecurePlatform, VPN-1 Power, VPN-1 UTM Power
NeoTIP	NeoXBC Session Border Control
Snort	Network Intrusion Detection
Sourcefire	Intrusion Sensor IDS, RNA
Squid	Web Proxy Cache
Trend Micro	IWSS and IMSS
Webscreen	WS Series DDoS
Websense	Web Security Suite, Web Threat Management

C-Series Specifications

C2



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

C6



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

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)
Power	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
Management Ports	Non-dedicated	Non-dedicated
Interfaces	4 x 10/100/1000 Ethernet	4 x 10/100/1000 Ethernet + 4 x 10/100 Ethernet 4 x 1000 copper Bypass (2 segments), optional
Processors	Single CPU	Single CPU
Memory	512 MB STD, 1GB optional	1GB STD, 2GB optional
Storage	80 GB HDD	80 GB HDD
Expansion Slots	N/A	1 PCI
UTM Security Engines	Firewall, VPN, IDS, anti-virus, URL filtering, content filtering, DDoS	
High Availability	VRRP redundancy, firewall session state synchronization	

PERFORMANCE SPECIFICATIONS

Firewall	380 Mbps (large packets), 380,000 pps (64-byte packets)	2.5 Gbps (large packets)
VPN (3DES/AES)	70Mbps / 165Mbps (1450 byte packet)	150Mbps / 215Mbps (1450 byte packet)
VPN (3DES/AES) with HW Acceleration (optional)	N/A	300Mbps / 300Mbps

MANAGEMENT SPECIFICATIONS

Element Management	Telnet, FTP, SSH, HTTPS, SSL, SNMPv1, 2c and 3, access control lists, secure administrative access
Network Management	SecureShore NMS (optional). See www.crossbeamsystems.com for details.

C12



Multi-application, multi-port, fiber GigE

C25



Multi-application, high port density, fiber GigE, dual power & HDD

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)
Power	100-240 VAC, 250W	100-240 VAC, 460W
Environment	Temperature: 0°-40° C (32°-104°F); Humidity: 10%-90% non-condensing; Altitude: 3048 m (10,000 ft.)	
Regulatory 13438 Compliance	UL 60950; FCC Part 15, Subpart B, Class A; EN 55024; EN 55022; VCCI V-3; AS/NZS 3548:1995; CNS 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
Management Ports	Non-dedicated	1 x 10/100 dedicated
Interfaces	8 x 10/100/1000 copper or 6 x 10/100/1000 copper + 2GE fiber/copper SFP 8 x 1000 copper Bypass (4 segments), optional	Interfaces support varies based on configurations, up to 12 data ports 12 x 1000 copper Bypass (6 segments), optional
Processors	Single CPU	Dual CPU
Memory	1GB STD, 2GB optional	2GB STD, 4GB optional
Storage	80 GB HDD	80 GB HDD
Expansion Slots	1 PCI	1 PCI
UTM Security	Firewall, VPN, IDS, anti-virus, URL filtering, content filtering, proxy/cache	
High Availability	Complete system redundancy; VRRP interface redundancy; session state synchronization	

PERFORMANCE SPECIFICATIONS

Firewall	4 Gbps (large packets)	6 Gbps (large packets)
VPN (3DES/AES)	170Mbps / 400Mbps (1450 byte packet)	200Mbps / 480Mbps (1450 byte packet)
VPN (3DES/AES) with HW Acceleration (optional)	N/A	N/A

MANAGEMENT SPECIFICATIONS

Element Management	Telnet, FTP, SSH, HTTPS, SSL, SNMPv1, 2c and 3, access control lists, secure administrative access
Network Management	SecureShore NMS (optional). See www.crossbeamsystems.com 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.

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



INTERNET
SECURITY
SYSTEMS™



TREND
MICRO™



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