



DATASHEET

FortiCache™ Series

ISP & Enterprise-Class Content Caching

Dealing With Bandwidth Demand

The Internet is experiencing dramatic changes in usage patterns as users shift from fixed to mobile access and the volume of interactive and video content increases dramatically. Carriers, service providers, large enterprises and educational grids all face a similar problem: Exponential growth in bandwidth requirements that consume capacity as soon as they create it. Networks have to be able to keep up with volatile demand, avoiding network congestion while maintaining service functionality and profitability.

Take Back Control of the Network

The FortiCache Range of Appliances give you control of your network by enabling you to cache content and accelerate applications, thus reducing the impact of these new pressures on the network. The FortiCache high-end caching solution provides application caching for large enterprises, ISPs, mobile providers, telcos, universities and educational grids. By caching application content, organizations can reuse popular content rather than download the same content each time a user requests it.

The integrated FortiGuard Web Filtering allows the network administrator to block access to selected content (e.g. adult content, malicious etc) to protect users or offer differentiated services.

Bandwidth Reduction and Application Acceleration

The Internet is increasingly driven by short-term phenomena as news stories, sporting events, viral videos and games drive spikes in bandwidth demand. Interest in such content can spread within minutes, proliferate quickly and generate huge loads on the network. The result is congestion, latency and unplanned cost. By reducing the amount of bandwidth used, particularly during demand spikes, service providers and enterprises can deliver a higher quality of service to their customers, improve customer satisfaction, retain a larger customer base and ultimately drive profitability.

FortiCache Network Control

You may be battling against the continuous need to upgrade bandwidth and the associated costs. In some locations, it may not be possible to purchase additional bandwidth. In these situations, FortiCache can enable your organization to remove the need for costly upgrades and gain more performance from your existing investments.

FortiCache enables the network administrator to optimize and accelerate the network by keeping as much traffic as possible “on net” and thus decrease the utilization of valuable external connectivity. This allows upgrades to be planned strategically rather than reactively. FortiCache understands the delivery format of content delivery networks, enabling caching of dynamic, distributed and streaming video content, even if such video is padded with advertisements or the file is served from different locations within the Content Delivery Network.



The Fortinet Family: Performance, Flexibility, and Scalability

Fortinet solutions offer you unparalleled security and performance, whether you're looking for a single platform to deliver unified threat management, a system to protect specific content such as web, messaging, or database traffic or a focused solution to accelerate and cache content.

Fortinet provides network and security solutions that address the most critical needs facing organizations of every size, including global enterprises, carriers, and service providers. To provide strong security without performance penalties, Fortinet products leverage breakthroughs in chip design, networking, security and content pattern recognition analysis. The unique, ASIC-based architecture analyzes network content and behavior in real-time, enabling all key network services—including real-time web applications—to be screened for both network and content-level threats without impacting network performance.

FortiCache expands on Fortinet's experience in the ISP, Carrier and Enterprise markets and delivers scalable, high performance caching at a competitive price.

- Supported functionality when caching traffic:
 - Detects same video ID when content comes from different CDN hosts
 - Seek forward/backward in video
 - Detect advertisements automatically played before actual videos

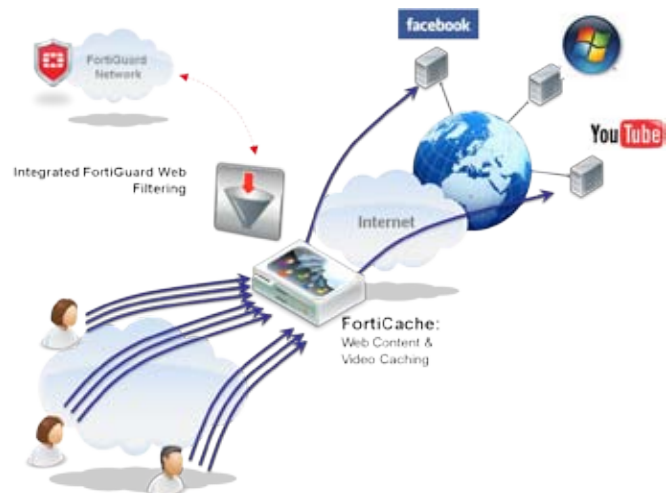
Feature	Benefit
Enterprise Class Content Caching	High performance, appliance based web cache increases network performance and reduces bandwidth costs.
Video Caching	Caches common web video formats including YouTube. Has the intelligence to identify when video is padded with an advertising video at the beginning and cache separately.
Content Delivery Network Awareness	Understands the format of common location-based CDNs and caches regardless of the location from which traffic is served.
FortiGuard Web Content Filtering	Provides fully integrated FortiGuard web filtering service with 79 categories, 76 Million rated websites and over 20+ rated web pages.
Microsoft Update Caching	Minimise the impact of “Patch Tuesday” by caching updates for what can be thousands requests.

Technical Specifications	FortiCache-400C	FortiCache-1000C	FortiCache-3000C
Hardware Specifications			
10/100/1000 (Copper, RJ-45)	4	4	4
SFP Gigabit Ethernet Interfaces	0	0	2
Local Storage	1 x 1 TB Hard Disk Drive	1 x 2TB Hard Disk Drive (additional 1x2TB optional)	4 x 1TB (additional 2x1TB optional)
Power Supply	Single 480W Auto Ranging (100V~240V)	Single 480W Auto Ranging (100V~240V)	Dual 480W Auto Ranging (100V~240V)
System Performance			
Throughput	80 Mbps	200 Mbps *	500 Mbps *
Max HTTP trans/second	TBC	TBC	TBC
Deployment Modes	Transparent Inline Proxy, Routed Inline Proxy, Partial Inline Proxy (via policy routing), Explicit Proxy, WCCP Target		
High Availability Configuration	Yes		
Unlimited user Licenses	Yes		
Dimensions			
Height	1.70 in (44 mm)	1.69 in (43 mm)	3.40 in (86 mm)
Width	17.10 in (435 mm)	17.4 in (443 mm)	17.4 in (443 mm)
Length	14.3 in (364 mm)	24.69 in (627 mm)	26.8 in (681 mm)
Weight	23 lb (10.43 kg)	24.2 lb (11.0 kg)	65.7lb (29.8 kg)
Environment			
Form Factor	Rack Mountable (1RU)	Rack Mountable (2RU)	Rack Mountable (2RU)
Power Source	100-240 VAC, 50-60 Hz,		
Current (Maximum)	4.00A /110V, 2.00A /220V	3.50A /110V, 1.75A /220V	3.50A /110V, 1.75A /220V
Power Consumption (AVG)	181 W	189 W	220 W
Heat Dissipation	620 BTU/h	643.6 BTU/h	750.7 BTU/h
Operating Temperature	32 – 104 deg F (0 – 40 deg C)	50 – 95 deg F (10 – 35 deg C)	
Storage Temperature	-13 – 158 deg F (-25 – 70 deg C)	-40 to 149 deg F (-40 to 65 deg C)	
Humidity	10 to 90% non-condensing	20 to 80% non-condensing	
System			
Standards Supported	10/100/1000 Base-TX (GbE), 1000, IP, Telnet, HTTP 1.0/1.1, SSL, RS232, NTP Client (RFC1305), RADIUS (RFC2865), LDAP (RFC4510), x.509 (RFC5280), Certificate Revocation (RFC3280), PKCS#12 Certificate Import, PKCS#10 CSR Import (RFC2986), Online Certificate Status Protocol (RFC 2560)		
Management	CLI, Direct Console DB9 CLI, HTTPS		
Compliance			
Regulatory Compliance	IEC 60950-1, CSA 60950-1, EN 60950-1, ICES-003, EN 55024, CISPR 22, AS/NZS 3548, FCC, 47FR part 15 Class A, VCCI-A		
Safety Compliance	CSA, C/US, CE, UL		

* Fully populated

All performance values are “up to” and vary depending on the system configuration.

Ordering Info		
Product	SKU	Description
FortiCache-400C	FCH-400C	FortiCache-400C
FortiCache-1000C	FCH-1000C-E07S	FortiCache-1000C
FortiCache-3000C	FCH-3000C-E02S	FortiCache-3000C



GLOBAL HEADQUARTERS

Fortinet Incorporated
1090 Kifer Road, Sunnyvale, CA 94086 USA
Tel +1.408.235.7700
Fax +1.408.235.7737
www.fortinet.com/sales

EMEA SALES OFFICE – FRANCE

Fortinet Incorporated
120 rue Albert Caquot
06560, Sophia Antipolis, France
Tel +33.4.8987.0510
Fax +33.4.8987.0501

APAC SALES OFFICE – SINGAPORE

Fortinet Incorporated
300 Beach Road 20-01, The Concourse
Singapore 199555
Tel: +65-6513-3730
Fax: +65-6223-6784

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