

CACHEBOX₃₁₀

PERFORMANCE CACHING SENSIBLE PRICES



OVERVIEW

The CACHEBOX₃₁₀ is designed for your network core. It combines enterprise-class feature rich caching software with the security, reliability and ease-of-use of the appliance format.

CACHEBOX was one of the first web cache appliances to use Solid State Drives (SSD) and now delivers 3600 HTTP requests per second in a 1U format. Depending on your type of traffic that means it can support more than 20,000 users per appliance. Other vendors only offer this level of performance with bigger, more expensive devices.

As well as using SSD for speed and storing small files, CACHEBOX₃₁₀ stores larger files - like internet video - including YouTube, Vimeo and others. It also caches software updates from leading Operating System and Application vendors saving you even more bandwidth.

If you have a very heavy caching workload, you can cluster two or more CACHEBOX₃₁₀'s with WCCP or a load balancer to get even higher performance.

If you plan to deploy more than 5 or 6 appliances, either clustered in a datacentre or distributed across many locations, you can simplify their configuration, management and recovery with the CACHEBOX Central Management Console (CMC). For more information see the CACHEBOX_{CMC} fact sheet.



FEATURES & BENEFITS

Save bandwidth, save money

- Fully featured caching software support for HTTP and HTTPS¹ content
- Video caching (YouTube, Metacafe, Vimeo, Dailymotion, Veoh etc)
- Software update caching (MS Windows, Apple, Avast, Kaspersky etc)
- Off-peak pre-caching of content
- Media Library – host preselected content, accessible offline¹

Easier to manage

- Intuitive, secure web admin interface
- Setup and caching assistants
- On-box graphical reporting / scheduled reporting to monitor caching and network performance
- Automated on-box / off-box backups
- Automated alerting
- Multi-lingual interface
- Control and administer multiple users
- Validated and automated data entry
- Operating system runs from read-only industrial CompactFlash
- SNMP support
- Custom ACLs support
- Logging

Flexible deployment

- Supports multiple transparent and explicit deployment modes
- Optional Fail-to-Wire resiliency
- Clustering, load balancing and hierarchies
- WCCP Support (v.2, GRE and Layer 2)
- IP spoofing
- Firewall with NAT forwarding for networking flexibility
- iKVM remote access technology

Browse safely and log activity

- Secure HTTPS and SSH management interface
- MS Active Directory integration via NTLM and Kerberos authentication
- RADIUS/LDAP authentication

¹ Not available for Service Provider Edition

SPECIFICATIONS

Usage	Network core Performance & storage
*Performance (HTTP Requests Per Second)	3600 HTTP Requests Per Sec 500+ Mbps
Cache Storage	2 x SSD, 1 x HDD Object Storage
Ethernet (NICs)	2 x 10/100/1000**
Flash Storage	1 x OS, 1 x data
OS	Linux
Form Factor	19" 1U Rack-mountable
Dimensions	19" (482.6mm) x 1.75" (44.45mm) x 17" (432mm)
Weight (Max)	8KG
Power	100-240V AC
Max Power	220W
Temperature	5°C to 35°C (41°F to 95°F)
Humidity	Less than 85% relative humidity, non-condensing

*Peak performance achieved under test conditions. Real life performance limits vary, depending on network and traffic characteristics

**4 x 10/100/1000 if Fail-to-Wire option is required.

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HARDWARE COMPONENTS AND CACHING SERVER

Hardware Components

- CPU: Processor must be at least Intel Xeon, Quad(4) core
- Provisioned with at least minimum of 16GB DDR3 Memory
- Operating System must be a custom Linux-based OS with kernel above 3.x and with at least Squid 3.0
- Removeable Compact Flash at least 2 x Compact Flash - 1 for operating system; 1 for settings/configuration
- NAS Grade Hard disk with minimum capacity of 2x2TB (HDD) ; 2x496GB (SSD)
- In-built of 2 x Copper Gigabit Ports
- Support for 2 bypass ports in case of unit failure to do LAN-bypass or network bypass
- USB interface: at least 2xUSB v3.0
- Rack mountable: 1u form factor in 19" wide
- Built-in ports: PS/2 keyboard, PS/2 mouse port, and serial
- Video port: VGA (console access)

System Performance

- HTTP Requests Per Second: 3600 HTTP Requests Per Second
- Cache Throughput: 500+ Mbps
- Max Concurrent Users: ~6000 users

Appliance Configuration

- Network interface can be configured in static or DHCP IP address assignment
- Network interface can support VLAN assignment, IP aliasing, bridging, bonding, and bridge of bonded ports
- Appliance must be capable to be deployed in different modes like the following: Explicit, Redirection with WCCP or Policy Based Routing, Interception in Bridge Mode, or Logical Gateway Mode

Appliance Administration

- Appliance must have administration access via HTTP, HTTPS, SSH, and local console port
- Configurable Access Control List for allowed host/network to access web administration console
- Can support for appliance backup thru local download/FTP/SAMBA/SCP and restore configuration
- Support Firmware upgrade via URL or file upload
- Multi-lingual support for web administration console
- Notifications configuration for system events via Email, SMS or SNMP

- Support for IP-KVM remote access for troubleshooting
- Role-based access control on user access
- Compatible and support with SNMP v1, v2, and v3
- Support for external centralized management console
- Provision for user authentication and integration via Windows NTLM, Active Directory, LDAP, and RADIUS

Caching Features

- Support on HTTP and HTTPS (with certificate) web Caching
- The caching service must have a configurable or customizable cache service listening port
- Appliance must have a provision for certificate on HTTPS caching
- Support for video caching, custom CDN, and at least 80+ pre-defined CDN (Content Delivery Networks)
- Must have pre-defined software update caching set for Microsoft, Apple, and Linux
- Configurable schedule or by on-demand web pre-caching for pre-defined and customized URLs
- Security on cache accessibility by Cache Access Control List (ACL) by IP address and network
- Can do caching bypass via URL and IP Address
- Customizable/add-on Squid-based configuration
- Able to do customizable error page for language specific error or filtered site
- Can set customizable object size and threshold for caching
- Configuration for offline cache access, header forwarding, aggressive caching, and pre-disk behavior on failure (degrade/proxy only)
- Caching Hierarchy Support
- Configurable disk space for static contents (large files such as ISO and Video files)
- Ability to do manual and automatic cache objects purging
- Provision on cache objects backup and restore utility via USB
- Scalability features: Parent-Child links, Sibling links and Load Balancing
- Dedicated Caching Server Appliance
- At least 1 Year Support Warranty Including Maintenance Support Implementation and Configuration Included and Knowledge Transfer

