

CACHEBOX solutions for Internet Service Providers



OVERVIEW

Internet Service Providers (ISPs) need to provide fast and reliable access to richer Internet content to meet the growing demands of customers, while keeping their costs competitive.

The explosion of Internet video and a rapid expansion of connected devices has created huge demand for bandwidth and speed among consumers and businesses.

This is putting pressure on all ISPs, including:

- ISPs with limited bandwidth supply who can't afford continual capacity upgrades
- ISPs who want to optimise their existing capacity to cater for additional traffic

ApplianSys can help ISPs make better use of their existing bandwidth.

CACHEBOX is a fit-for-purpose web caching appliance that's trusted by ISPs around the world – from Ghana to California.

It provides the exact functionality ISPs need, at an affordable price-point, delivering an exceptional return on investment.

"CACHEBOX saved us money as it delayed the need to purchase additional bandwidth."

Adam Yan, C&W St Helena Networks Manager

BENEFITS

Use less bandwidth and lower your costs

CACHEBOX reduces bandwidth use by caching HTTP traffic, video content and software updates from the likes of Microsoft, Apple and Adobe. By using less bandwidth, you can:

- Delay the need for a bandwidth upgrade
- Spend less on your metered connection
- Add more users to increase revenue, without increasing capacity

Attract more customers

Lower costs mean you can drop your prices below your competitors to attract more customers. What's more, the space you free up on your network allows you to take on more subscribers, without decreasing the quality of your service.

Improve customer satisfaction

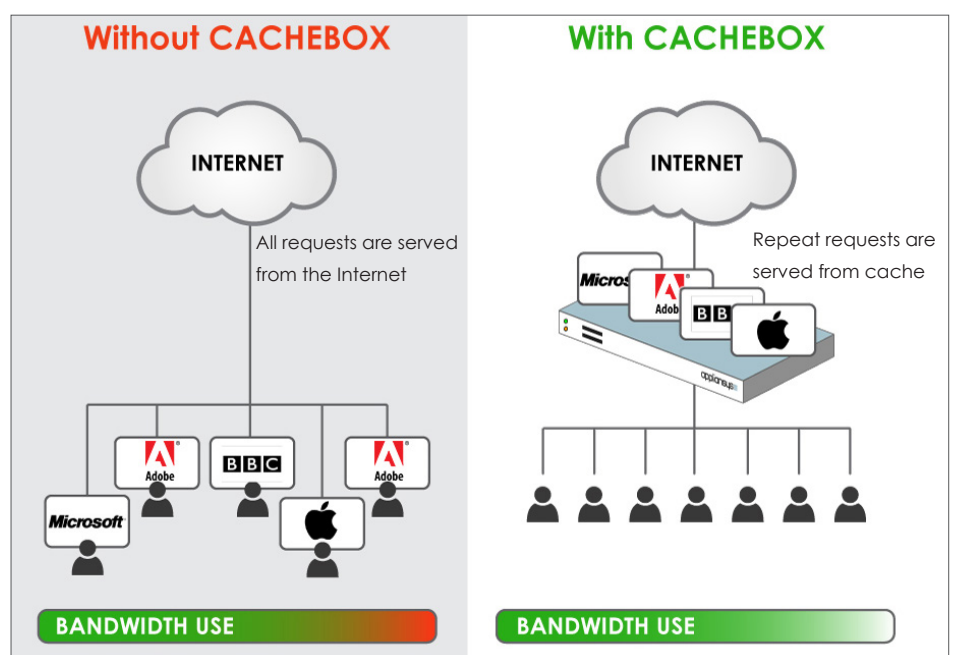
Caching can dramatically improve page load times and download speeds, transforming your user experience and getting an edge over the competition. Subscribers will be happier with your service and stay loyal for longer.

Add new services

More free space means you can offer additional services like high-quality content streaming and Voice over IP – or offer enhanced service levels for a premium price.

Save time and eliminate headaches

ApplianSys has designed CACHEBOX to be quick to deploy, simple to use and easy to maintain. Plus, it allows you to monitor and control your web traffic and comply with legislation on data retention.



A SOLUTION FOR EVERY ISP

The table below shows the full range of **CACHEBOX** models. No matter what the size of your business or your specific deployment requirements, we can help you determine the right model that will give you the optimum balance of value and performance. The range includes options for:

- Form factors: desktop, 1U rack-mountable and 2U rack-mountable
- Storage: Hard Disk Drives for value and Solid State Drives for performance
- Throughput: from 40 Mbps to over 1 Gbps
- Users: from 150 up to 20,000

CACHEBOX RANGE

Model	Usage	Form Factor	Performance* (HTTP Requests per second) / Throughput
CACHEBOX050	Very small ISP	Small Form Factor Desktop Unit	400 / 40 Mbps
CACHEBOX110	Very small ISP	19" 1U Rack-mountable	400 / 40 Mbps
CACHEBOX130	Small ISP	19" 1U Rack-mountable	500 / 60 Mbps
CACHEBOX210	Small to Medium ISP	19" 1U Rack-mountable	1,300 / 100 Mbps
CACHEBOX230	Medium ISP	19" 1U Rack-mountable	2,500 / 250+ Mbps
CACHEBOX310	Large ISP High throughput	19" 1U Rack-mountable	3,600 / 500+ Mbps
CACHEBOX420	Large network core High throughput	19" 2U Rack-mountable	6,000 / 1+ Gbps
CACHEBOX440	Large network core High throughput	19" 2U Rack-mountable	20,000+ users 2.5+ Gbps
CACHEBOXCMC	Remote administration of up to 500 CACHEBOX es	19" 1U Rack-mountable	Not Applicable

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

*"**CACHEBOX** makes a noticeable difference to our users' web experience and offers a very good price-to-performance ratio"*

Raz Biramah, IPI9, Gabon

*"**CACHEBOX** has improved user experience drastically and optimised bandwidth - which is a much more effective alternative to spending money on extra bandwidth."*

Victor Hugo, Network Administrator, EMAX, Peru

FEATURES

Save bandwidth, save money

- Fully featured caching software support for HTTP
- Video caching (Metacafe, Vimeo, Dailymotion, Veoh etc)
- Software update caching (MS Windows, Apple, Avast, Kaspersky etc)
- Off-peak pre-caching of content
- Reserve a portion of disk space for permanently storing specific objects

Easier to manage

- Intuitive, secure web administration interface
- Setup and caching assistants
- Configuration adapts to deployment mode
- On-box graphical reporting / scheduled reporting to monitor caching and network performance
- Automated on-box / off-box backups
- Automated alerts, traffic threshold alarms
- Multi-lingual interface – available in English, Spanish and French
- Control and administer multiple users
- Validated and automated data entry
- Operating system runs from read-only industrial CFast card
- SNMP support
- Custom ACLs support

Flexible deployment

- Supports multiple transparent and explicit deployment modes
- Swappable SSD/HDDs
- Optional Fail-to-Wire resilience
- 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 (depending on model)

Secure management interface

- Secure HTTPS and SSH management interface
- RADIUS/LDAP authentication