Z1 GEM Technical Specifications

Hardware	
CPU	Quad core Intel i7 4GHz
Memory	16GB DDR3
Networking	Two 1Gb/s interfaces
USB	Six USB2 sockets
Disks	Two SATA II, 7200rpm disks (up to 2000GB each) in hot swap enclosures. One off-site disk in protective carrier. Optional hardware AES-256 encryption (GEM/S)
Power	Internal 200VA PSU
Cooling	4 low noise cooling fans
Hardware monitoring	System/CPU/Disk temperature and fan status monitored/controlled by firmware.
Size	W:198mm H:212mm D:335mm

Email	
SMTP	SMTP server with virtual hosts, mail filters, SSL/TLS security, authentication
POP3 Server	SSL security enabled
POP3 Client	Downloads email from external mailboxes. Configurable mail filtering before download. Handles 'multi-drop' mailboxes.
IMAP	IMAP4 server with SSL/TLS
WEBMAIL	IMAP based, remote access with SSH tunnelling and encryption.
Antivirus	Filtering all emails before delivery, regular disk scans, virus database automatically updated twice a day
Anti-SPAM	Filtering all incoming mail, tagging or stopping emails when SPAM is detected. Can be customised for individual users.
Email delivery	Automatic delivery to local mailboxes, mail aliases and lists, configurable delivery filters, shared mail folders.
Email archiving	Automatic archiving of all emails in WORM structures, immediate access to full archive with IMAP clients including secure WEBMAIL.

Backup and Archiving	
Control	TripleA™ system
File Backup	Daily automatic disk-to-disk synchronization. Includes system and configuration making backup disk bootable copy of the main disk.
Email	Archives all incoming and outgoing mail in non-rewriteable files.
Archival	Files modified or deleted since last backup are archived with full version control. File retention policy may be applied for different types of files.
Off site disk	Backup disk is hot-swappable. A spare disk is provided to allow the backup disk to be moved off premises. The off-site disk is a fully working system disk and can be used in an off-the-shelf replacement server.
Recovery	Each of the three disks contains the full copy of the system, data and configuration. The system can be rebooted from any of the disks. If the server is not available, the spare disk will boot in the replacement server.

Note: Technical specifications are subject to change

Software	
Operating System	Linux
File Sharing	CIFS, NFS, WEBDAV
Configuration	WEB Interface
WEB Server	Apache 2.2 with SSL,PHP5,Python,CGI,WEBDAV,Virtual Hosts
Virtualization	KVM-QEMU

Networking	
General	Router with firewall and NAT
WAN Configuration	DHCP client or manual
LAN Configuration	Manual
Firewall	Stateful Packet Inspection, fully configurable
NAT	Configurable network address translation and port redirection
DHCP	Client on WAN, Server on LAN
DNS	Master DNS server

Security	
Firewall	Stateful Packet Inspection, fully configurable
Secure Shell	SSH server providing SSH1,SSH2, SCP and SFTP protocols. Public/Private key authentication. Browser based configuration.
Secure HTTP	SSL enabled WEB server
Email security	SMTP, POP3 and IMAP over SSL
SSH tunneling	SSH tunnels allow secure/encrypted remote access to any port/host on LAN based on Public/Private key authentication.
File access	Shared and private file shares, Role Based Access Control.

Compatibility	
File Sharing	CIFS, NFS, WEBDAV, Compatible clients: Windows 98/NT/2000/XP/7, MAC OS X, UNIX, Linux
Configuration	IE, Mozilla Firefox,Chrome etc.
WEB Server	HTTP, HTTPS/SSL, WEBDAV, SVN
Email	SMTP - SSL/TLS security and authentication IMAP4 - SSL/TLS security and authentication POP3 - SSL/TLS security and authentication
Time server	NTP
File access	SCP, SFTP, FTP, WEBDAV,SVN
Shell access	SSH2, Telnet
Name Server	DNS Master
Workstation configuration	DHCP

http://www.zybert.co.uk/gem

ZYBERT
Computing Ltd