



edgebox

all the network in a box

Affordable Multiservice Business Gateway

Reliable Broadband Managed Services

Intelligent Customer Premises Equipment

edgeBOX is a multi-function business gateway that consolidates data, voice and IT services for small and medium sized businesses.

edgeBOX effectively replaces an average of 4 to 6 devices, dramatically simplifying deployment and management of networking services, with significantly lower Total Cost of Ownership (TCO).

edgeBOX is available in a wide range of scalable hardware platforms, including standard servers, and has the best feature to price ratio in the market, making it the ideal choice for cost savvy SMBs.

Services provided by the edgeBOX today include:

Data Networking

- High speed internet access via ADSL, Cable, or 3G
- LAN and Wireless LAN networking
- Wide Area Network (WAN) capabilities between sites

Voice

- VoIP Gateway for routing between PSTN and IP networks
- IP Private Branch Exchange (IP PBX) with a comprehensive feature list for inbound and outbound call management

Security

- Virtual Private Networks (VPNs) based on IPSec, PPTP and L2TP for site-to-site and tele-workers respectively
- Authorisation, Authentication, and Accounting (AAA) providing complete control and auditing of network resources
- Firewall management; either basic or authenticated statefull firewall for each external link and VPN
- Anti-Virus protection based on both open source (ClamAV) and third-party software (McAfee, Sophos)

IT

- File and printer sharing for office desktop user collaboration
- Storage with quota management and automatic backup to a local disk or remote server backup
- Web server for intranet, extranet or internet. Intranet out-of-the-box with standard collaborative services
- Email and associated services for email hosting

Management

- Quality of Service (QoS) and Bandwidth Management for service and user prioritisation, in particular to ensure voice quality
- Integrated Management from an easy to use web interface
- Provisioning and administration platform (ITEMS™) specifically designed to allow Service Providers to deliver Broadband Managed Services

Networking			
WAN Interface	WLAN Interface	LAN Interface	- DNS Server (Master and Forward)
- Ethernet 100Mbps	- WiFi (802.11b/g) embedded AP (optional card)	- Ethernet 1Gig	- Dynamic DNS client
- Embedded ADSL (optional card)	- WiFi access controller (external APs)	DMZ Interface	- Hostname and domain assignment
- UMTS/3G (optional card)	- WEP, WPA, WPA2 authentication	- Ethernet 1Gig	- NAT/ PAT Address Translation
- PPPoA, PPPoE, PPPP	- 802.1x local authentication	Networking / Routing	- Port Forwarding
- DHCP Client	- 802.1x remote Radius authentication	- Static routing on the LAN and WAN	- MAC-IP assignment
- Static IP	- Wireless MAC filtering	- GRE (Generic Router Encapsulation)	- DynVLAN support
	- AP authentication / provisioning	- DHCP Server with multiple ranges	
VoIP and IP PBX			
- VoIP Protocols: SIP and IAX	- Telephone Number Mapping (ENUM)	- Follow-me feature for user extensions	- Who is talking and to whom
- PSTN interfaces: PRI, BRI FXS/FXO (optional cards)	- Call Parking	- IP phone and SIP status	- SIP and IAX registration status (Greys out if offline)
- Legacy PBX integration through BRI/PRI	- Call Forwarding	- User Profiles with call permissions	- MeetMe room status (number of participants)
- Incoming call rules	- Conference Bridging	- Allow/deny IP per extension	- Queue status (number of users waiting)
- DID call routing	- Do not Disturb	- DTMF (rfc2833, info, inband)	- Parked channels
- Interactive Voice Response (IVR)	- Caller ID	- Call routing between remote edgeBOX switches (branch offices)	- Logged in Agents
- Graphical IVR editor	- Music on Hold	- Free codecs: GSM; G.711 u/a, G.726, Speex, Dialogic, ILBC, H261, H263 /p	And perform the following actions:
- Sound Manager	- Call Queuing	- Commercial codecs: G.729a (with license management)	- Hang-up a channel
- Outgoing call prefix management	- Hunt Groups	Graphical Operator Panel	- Transfer a call leg via drag and drop
- Least Cost Routing (LCR)	- Agent Management	Allows you to view:	- Initiate calls via drag and drop
- VoIP Provider management	- Voice-mail	- Which extensions are busy, ringing or available	- Barge in on a call using drag and drop
- SIP Proxy support	- Voice-mail email notification and playback		- Drag and drop to create an agent
- Remote switch management	- Automatic Call Distribution (ACD)		- Manage queues
	- Digital Receptionist / Web operator panel		- Park/Unpark calls
Security			
Stateful Inspection Firewall	- Built-in support for most popular services	- Provides protection from replay attacks	- License management
- Filter on source and/or destination IP address/port	- No predefined limit on the number of rules	- LAN host deny/allow lists	- File shares scan
- Authentication and authorisation enforcing	Virtual Private Networking	- LAN services deny/allow lists	- Email scan
- Filter on SYN, ACK flags and ICMP	- VPN protocols: IPSec, PPTP, L2TP	- IPSec VPN Firewall to control tunnel access	- Email antispam based on RBLs
- Service filtering	- No pre-defined limit on IPSec VPN tunnels	- PPTP Server with local or remote authentication	Content filtering
- Black lists	- 3DES and AES encryption	- L2TP client	- By domain name
- Proxy ARP	- SHA-1 and MD5 authentication	Antivirus and antispam	- By keyword in URL
- DoS - Denial of Service protection	- Internet Key Exchange (IKE) - Aggressive Mode	- Free antivirus: ClamAV	- External URL categorization and filtering
- Provides enterprise-grade firewall protection	- Perfect Forward Secrecy (DH Group 2 and 5)	- Commercial: McAfee, Sophos	
Network Access Control (NAC)			
- Authentication, Authorisation and Accounting	- Remote LDAP authentication	- 802.1X authentication	- Guest Access
- Local Authentication	- Remote AD authentication	- Access Control per user, service, IP	- Single sign on for 802.1X
- Embedded RADIUS and LDAP Server	- User import from CSV, LDAP, AD	- Access Control per time schedule	- Single sign on for Windows users (PD)
- Remote RADIUS authentication/accounting	- Captive login Portal	- Access Control per network (VPN, LAN, WLAN)	
Bandwidth Management			
- QoS on WAN	- Diffserv (AF and EF)	- Predefined upload/download classes	- Configurable traffic prioritisation policies by: addresses, users, groups, port, protocol
- DSCP marking on the WAN	- CBQ,GRED,TBF,SFQ Traffic prioritisation	- Reserved bandwidth classes	
- Inbound and Outbound QoS	- Policies per user, groups, ports, protocol		
Integrated Management			
Administration	- Multilanguage support	Software Updates	GUI Customisation
- Intuitive browser-based GUI	- Configuration using HTTP, HTTPS	- Automatic download from central update server (update.edgebox.net)	- User landing/authentication page customisation
- Two-level administration: Service Provider admin (super) and Local administrator admin (fully controlled)	- Configuration using serial console, SSH, CLI	- Configurable Automatic/Manual update	- Management interface customisation (logos, colours, messages)
- Service Provider Provisioning Platform (iTEMS™ companion product)	- Syslog client, syslog server support	- Notifications for service shutdown and service restart for planned maintenance	
	- SNMP v1/2/3		
	- NTP client		
Storage and Print			
- Windows SMB support	- Disk quota management	- Scheduled backups	
- Public share management	- Disk backup/restore management	- USB Printer sharing	
- User home and temporary shares	- Remote FTP backup and local USB-disk backup	- RAID 1 Support	
Collaboration Services			
Windows interoperability	- Web Caching / Transparent Proxy	- Web mail	- Default self service page at www.myedgebox.com
- PDC - Primary Domain Controller Service	- SMTP, POP3, and IMAP servers	User self service Portal	Optional Service Packs (edgePAKs)
- WINS - Windows Internet Naming Service	- POP3s and IMAPs servers	- Email vacation setup	- Controlled API for new service deployment.
- Single sign on for Windows users	- SMTP relay support	- Email forwarding	- Service packs available include:
Email and web	- Remote mail storage	- Voice mail setup	- Content management System (CMS)
- HTTP, HTTPS, and FTP Server	- Email aliases	- View and Play voicemail	- Learning Management System (LMS)
- Self-signed self generated x509 certificates	- Multiple email domains	- Password change	- Contact Critical for more edgePAKs
- User directories / home pages	- Ban lists	- Phone Directory	
- Virtual Hosts	- Email relay lists	- Call forward setup	
High Availability			
- Active / Standby with recovery from backup	- Active / Active *	- Dual-homing (multiple WAN connections) *	

* Under development – to be available in the future as a software update

edgeBOX gateway configurations based on standard COTS hardware

Models	Hardware	REC # Users
Office Gateway	Appliance, entry-level server	1-40
Business Gateway	Appliance, standard server	40-100
Hardware Options	high-end, Appliance, rack-mountable server	100+
	WiFi PCI AP ADSL PCI Modem 3G Data Card ISDN BRI and PRI single, dual or quad span FXO/FXS up to 24 ports per card	

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