



The mBox 2000 Series are multi-service, multi-function and multi-purpose Unified IP Communications & Applications Internet appliances that deliver true convergence of data, voice, video and IT applications at the customer premise. The mBox 2000 Series appliances pre-integrate a simple and modular solution to organizations' ICT needs including Internet gateway, shared and secured Internet access, telephony, data backup, security, remote access, resource sharing, email, web servers, collaboration applications and network access control. Simply put once an mBox 2000 Series appliance is installed, no additional hardware or software is required to set up a secure office network, establish Web presence, connect branch offices and protect company data.

**Getting your organization online**

The mBox connects your company to the Internet where all you staff members can be online in seconds. It is effectively your gateway to the Internet and World Wide Web. Also it provides its own network connections and can also connect to external switches for supporting additional user ports.

**Protecting & securing Internet access**

With constant Internet access available to all, few challenges arise. From internal abuse (i.e. cyber-slacking) to viruses, intrusions and attacks, the mBox deals with all these threats while providing full protection and peace of mind so you can concentrate on your own business.

**Simply communicating with the World**

Make calls easily and simply using a wide choice of phones available for any business environment. Have your own email server for faster response, better control and more security. Stay up to date and access your emails when outside the office and have all your voice messages directed to your email so you are always connected with customers.

**Empowering your network with intelligence and speed**

Use the mBox as a Network Appliance providing dedicated functions such as Network Access Control (NAC) or WAN Optimization. NAC helps protect your network from the inside by regulating access and WAN optimization speeds up your wide area links for maximum user experience.



# mbox® 2000 Series

## ALL-IN-ONE MULTI-FUNCTION INTERNET APPLIANCES

Optimized for Small, Medium & Distributed Enterprises ranging from few users to hundreds. Ideal for Office-in-a-Box, Branch-in-a-Box & Network Appliance Solutions

### Product Highlights

The mBox 2000 Series appliances provide fully integrated computing and Internet networking - including Web, gateway, phone, email, network, security, storage, resource sharing, collaboration, network access control, WAN optimization and a whole lot more - in one easy to deploy and use platform.

- Support for a wide-range of connectivity options for Internet and Telephony
- QuickStart menu for fast-track setup in less than 1 minute!
- Compact design offering small footprint
- Subscription-based services for security updates keeping your network safe
- Ideal for WAN Optimization and NAC Solutions
- Powered by Msona robust and trusted Linux-based operating system, mOS
- Seamless integration with Microsoft Windows® environment








# UNLOCKS FULL POTENTIAL OF TRUE CONVERGENCE BETWEEN NETWORKING, TELECOMMUNICATIONS AND IT

1

## INTERNET GATEWAY (IG)

### Getting your organization online

- All users can quickly, easily and securely share Internet connectivity
- Supports multiple Internet connections for increased bandwidth, load-balancing and fault-tolerance
- Allows remote users and branch offices secure access to company network over the Internet







	<b>Router</b>	Static routing on the LAN and WAN. RIP support (future) Support for WAN interfaces: Fibre, ADSL, 3G, UMTS/HSDPA, WiMAX.
	<b>LAN VPN</b>	Gigabit Ethernet switching with fibre interface & 16 VLANs. Secure user-to-office and office-to-office communications using SSL, IPSEC and PPTP protocols.
	<b>Proxy</b>	Increasing browsing speed, rich access control, authorization and logging environment.
	<b>Traffic Mgmt</b>	Distribute Internet traffic transparently and define specific connections for protocols such as HTTPS, VoIP and VPN between offices.
	<b>DNS</b>	DNS server and relay with Dynamic DNS client support for reaching mBox from WAN even when its IP address changes.
	<b>DHCP</b>	DHCP Server with multiple ranges supporting dynamic and static leases.
	<b>NTP</b>	Network Time Protocol

2

## UNIFIED THREAT MANAGEMENT (UTM)

### Protecting & securing Internet access

- Easy to configure high-security firewall for protecting against Internet threats
- Secure working environment by blocking inappropriate content and restricting access to certain sites
- Keeps network one step ahead of attacks by detecting and eliminating Internet threats before they reach you






	<b>Firewall</b>	Stateful inspection firewall, full ability to Block/Allow incoming and outgoing connections, 1-to-1 NAT mapping, DMZ, Port Forwarding as well as Blocking of Peer-to-Peer traffic.
	<b>VPN</b>	Secure user-to-office and office-to-office communications using SSL, IPSEC and PPTP protocols.
	<b>Content Filtering</b>	Blocking potentially dangerous web threats with powerful filtering capabilities by: Category, URL, Protocol, File. extensions and MIME, Phrase/Keyword and Anti-Virus. Supports different user profiles.
	<b>IDPS</b>	Intrusion Detection & Prevention System detects and eliminates thousands types of potential malicious behaviours, attacks or intrusions to your network.
	<b>Anti-Virus</b>	Anti-virus engine scans and cleans files stored on mBox and stops virus outbreaks before they reach users desktops.
	<b>Certificate Authority</b>	Create certificates for users and sites to give users secure access to internal services such as VPN or email.

3

## UNIFIED COMMUNICATIONS (UTC)

### Simply communicating with the World





- You can use IP phones, soft-phones or even your mobile phones to make and receive calls. All intra company voice communications can be channeled over the Internet reducing cost
- Host your own email server for better control and security
- Seamless integration with Microsoft® environment

	<b>Phone (PBX)</b>	Feature-rich IP Telephony solution with professional call handling capabilities such as Automatic Call Distribution, hunt groups, auto attendant, digital receptionist, IVR, voicemail to e-mail forwarding, Skype integration..etc.
	<b>Email Server</b>	Outlook® compatible email server supporting IMAP(s),POP(s), SMTP, Webmail. Support for email logging.
	<b>File Sharing</b>	Transparent connectivity with Microsoft Windows® networks for sharing files and network resources with full support for Workgroups and Domains. Public share management and User home directories.
	<b>Web Server</b>	Hosting of Internet/Intranet sites and web applications such as CRM, ERP and e-learning tools which can be accessed locally and from Internet.
	<b>FTP Server</b>	Ability to quickly setup an FTP server on the fly with flexible access locally and from Internet.

4

## NETWORK APPLICATIONS ADD-ONS

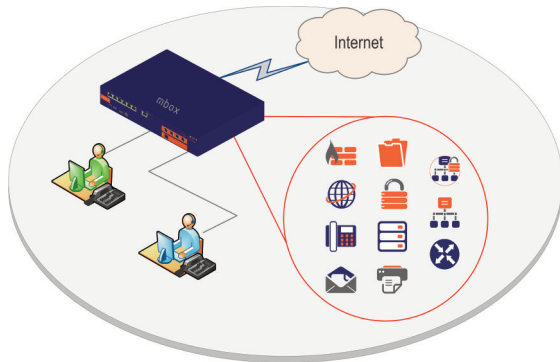
### Empowering your network with intelligence and speed

	<b>Network Access Control (NAC)</b>	Controls access and admission of wired and wireless users using 802.1x protocol with centralized RADIUS authentication. Supports MAC-based as well as username/password authentication methods. High Availability (HA) ensures resilience and redundancy in mission-critical environments.
	<b>WAN Optimization / Application Acceleration (mSpeed!)</b>	Dramatically speeds-up the performance of applications over Wide Area Networks with massive bandwidth savings for ultimate user experience. Customers can achieve up to 150 times faster file transfers, 15 times speed improvement and 97% bandwidth cost savings.
	<b>Groupware &amp; Collaboration (mGroupware)</b>	Outlook® compatible cost-effective and scalable email & group calendaring alternative to Microsoft Exchange server offering ability to synchronise contacts, calendars and tasks with mobile phone integration.
	<b>Network Monitoring (mWatch)</b>	Provides the ability to monitor downloaded and transferred files as well as sent and received emails and chat messages.

**“DELIVERY POINT” AT CUSTOMER PREMISE FOR OPEN,  
CUSTOMIZABLE, SECURE, MANAGED,  
MULTI-FUNCTION AND CONVERGED ICT INFRASTRUCTURE**

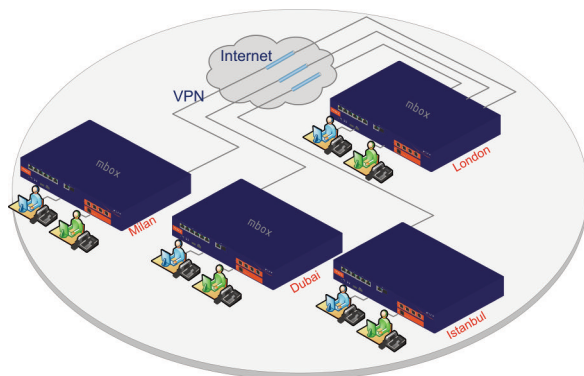
**Office-in-a-Box**

All your IT, telephony & security in one box



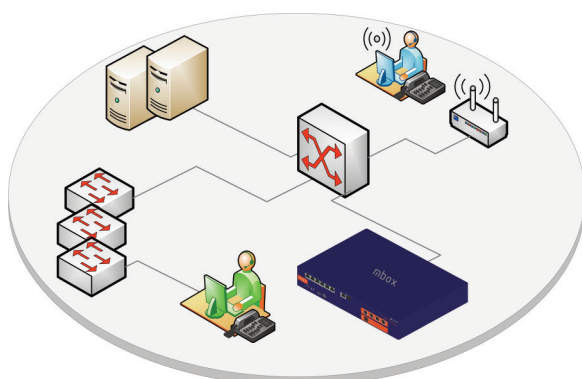
**Branch-in-a-Box**

Connect multiple offices from around the World



**Network Appliance**

Ideal for WAN Optimization and Network Access Control (NAC) Solutions



**Delivering mPhone™ family of IP Voice & Video Phones**

**mPhone M673xi IP Phone**



**M6730i:** Entry level IP Phone with 2 lines, LCD Display and a range of calling features such as call forward, call transfer, call waiting, intercom & local 3-way conference.

**M6731i:** In addition to the features of M6730i, this mPhone Incorporates PoE support and a 2-port 10/100 switch.

**mPhone M6755i IP Phone**



High-end phone with larger LCD display and context-sensitive softkeys. Incorporates PoE support and 2-port 10/100 switch. Supports up to 9 simultaneous calls and a range of calling features such as call forward, call transfer, call waiting, intercom & local 3-way conference.

**mPhone MV7360-1 IP Video Conferencing Phone**



Delivers high-quality face-to-face voice and video calls including IPTV and VoD. Features 7" 800x400 Touch Screen Digital LCD display and 300K pixels rotatable sensor camera. Adopts H.264 codec and supports adaptive bandwidth adjustment technology.

**Delivering mConnect™ 100 Series 3G Modems**



High-performance 3G Modems offering 7.2Mbps downlink and 2.1Mbps uplink speeds coupled with tight integration with mBox 2000 Series. Ideal as main link in remote areas or as back-up for DSL or Fibre Broadband access.

## Hardware Specifications

### Base Unit

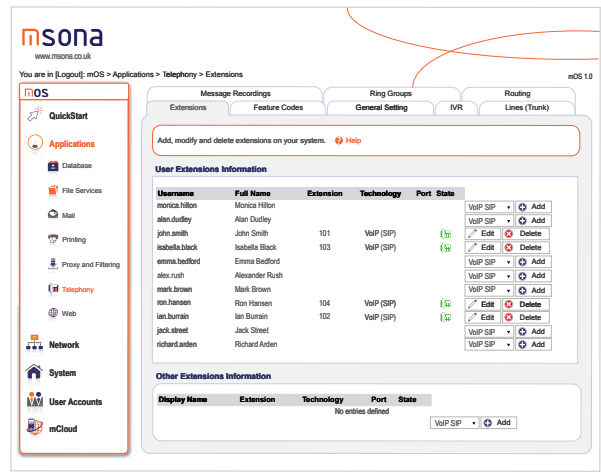
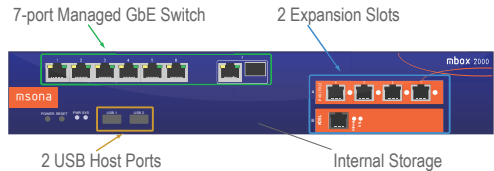
mBox 2000 Multi-service Internet Appliance  
 7 GbE Managed Ports (6 10/100/1000 Base-T)  
 1 Combo (10/100/1000 UTP/SFP) used for Metro Ethernet termination  
 2 Expansion Slots for Internal Expansion Service Modules \*  
 2 USB Host 2.0 Ports

### Device Characteristics

<b>Switching Backplane</b>	14 Gbps, Fully managed Layer 2 Gigabit Ethernet switch	
<b>Supported Protocols</b>	TCP/IP, DHCP, NAT, SIP, DNS, IMAP(S)/POP3(S), IPSec, OpenVPN, PPTP, HTTP(S), FTP(S), SSL, GRE, SSH, PPPoE, PPPoA, RFC1483	
<b>Management</b>	Graphical User Interface (mOS), Console via USB and central management for distributed mBox deployments (mCloud), SNMP	
<b>Mounting Kit</b>	19" rack/wall-mounting kit (ordered separately)	
<b>Power Supply**</b>	Internal AC/DC adapter Max Power Consumption	AC, 100-240V, 50-60Hz 90W
<b>Environmental</b>	Operating Temperature	Min 0°C, Max 35°C
	Operating Humidity Storage Temperature Storage Humidity	Max 80%, Relative, Non-condensing Max -20°C, Max 70°C Max 95%, Relative, Non-condensing
<b>Physical</b>	Mounting Options Dimensions Weight	Desktop, Rack and Wall 66H mm (1.5U), 350W mm, 280D mm 5.5 kg
<b>Approval &amp; Certifications</b>	Safety Emission Immunity	EN60950 EN55022 Class B EN55024 Class B
<b>EC Community Design</b>	European Community Design No. 001025225-0001/2/3/4/5/6	
<b>Supported Standards</b>	Support for IEEE 802.1q VLAN (up to 16 VLANs) Support for 802.1x Private Dynamic VLAN assignment Support for ACL (Access Control Lists)	
<b>Back-up &amp; Recovery (High Availability)</b>	Easy-to-use back-up and restore solution is provided by Msona where all data and configurations can be backed-up on external NAS storage with simple to apply process for full recovery in case of failure or loss.	

### Configuration Options

<b>Internal Expansion Modules</b>	Telephony	4 FXS/FXO ISDN/PRI (Future)
	xDSL	1-port ADSL/ADSL2+
<b>External Modules (USB)</b>	3G	1 3G/UMTS/GPRSa
	WiMAX	802.16/802.16e Fixed and Mobile
<b>Internal Storage</b>	Enterprise Hard Drive	80 GB, 250 GB, 500 GB, 1 TB, 2 TB



Simple, intuitive and easy-to-use Web-based GUI for seamless and straight-forward configuration and management

Model	Usage
mBox 2040 2 x Internal Expansion Slots	High-end all-in-one appliance ideal for central sites and demanding usage.
mBox 2020 2 x Internal Expansion Slots	Mid-range all-in-one appliance ideal for running multiple functions in a mid-sized business.
mBox 2012 2 x Internal Expansion Slots	Entry-level all-in-one appliance ideal for running multiple functions in a small business with moderate usage of functions.
mBox 2011 NO Expansion Slots	Ideal for single function applications such as WAN Optimization, Firewall, NAC & Kanun 5651. Also applicable for environments where Internet & telephony terminations are provided externally (eg. FTTx, external modem, hosted VoIP)

\* Not available on mBox 2011.

\*\* UPS system required for graceful shutdown available for APC systems.

## Ordering Information

Please contact your local authorized Msona channel partner or visit us @ [www.msona.co.uk](http://www.msona.co.uk).

