

mBox™ 4000 Series Datasheet



The mBox 4000 Series are high-performance Enterprise-grade multi-service and multi-function Internet appliances that deliver true convergence of IT, voice, video and network applications at the customer premise. The mBox 4000 Series appliances pre-integrate:

- Unified IP Communications with built-in MS Exchange-like Email solution and complete IP Telephony system
- Unified Threat Management (UTM)
- Internet Gateway
- Add-on Applications: Network Access Control, Internet Monitoring, WAN Optimisation and much more.



Simply put once an mBox 4000 Series appliance is installed, no additional hardware or software is required to set up a secure enterprise network, establish Web presence, connect offices and protect company data.

**Large Enterprise**

The mBox 4000 Series platform brings unprecedented convenience to large enterprises looking for easy-to-use, feature-rich and affordable multi-service ICT infrastructure without the complexity and cost of traditional systems. Based on the same state-of-the-art technologies embedded in its smaller sibling, mBox 2000 Series, the mBox 4000 Series deliver Unified Communications (UC) with built-in MS Exchange-like email system, IP telephony, Unified Threat Management (UTM) and Broadband Gateway functions.

**Performance & Resilience**

The mBox 4000 Series multi-service Internet appliances are available in 2U single and multi-core Xeon processor versions, mBox 4001 and mBox 4002 respectively, support RAID 5, 10 & 50 with up to 8 hot-pluggable SAS hard drives. Both platforms come standard with two fully redundant power supplies increasing availability and up-time.

**Central Site of Distributed Enterprise**

The mBox 4000 Series platforms can be used to host the enterprise's MS Exchange-like email system, unified IP communications as well as VPN concentration device for connecting together thousands of remote sites and branch offices over the Internet or Intranet.

**mbox™ 4000 Series  
ALL-IN-ONE  
MULTI-SERVICE INTERNET  
APPLIANCES**

All-in-one, multi-function, versatile, secure Internet appliance with integrated feature-rich, flexible and reliable applications and managed services for Large Enterprises

**Product Highlights**

The mBox 4000 Series appliances provide fully integrated computing and Broadband networking - including Web, gateway, phone, email, network, print, security, storage, resource sharing, collaboration, network access control and a whole lot more - in one easy to deploy and use platform.

- High-performance and high-availability all-in-one Internet appliance.
- Unified Communications (UC) with built-in MS Exchange-like email system, IP telephony, Unified Threat Management (UTM) and Internet Gateway functions.
- Gigabit Ethernet speeds allowing support for a wide-range of connectivity options.
- Ideal for Enterprise email systems and Unified IP Communications applications.
- Hot-pluggable HD storage giving high resilience and better flexibility in the field.
- Intuitive Web-based Management Graphical User Interface
- Powered by Intel ultra-fast server-based Xeon processors
- Powered by Msona's robust and trusted Linux-based operating system, mOS

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

## Features and Benefits



### Share Internet Resources

#### Broadband Gateway

- DHCP
- NAT
- Static IP Routing

Through one unified and integrated appliance connected to the Internet via Broadband, all network users can quickly and easily share Internet connectivity. Network Address Translation (NAT) allows for sharing of Internet access and use of private IP addresses on the LAN.



### Secure Internet Access

#### Security

- Firewall
- Intrusion Detection & Prevention

The network is protected from outside attacks with state-of-the-art firewall system working together with intelligent intrusion detection and protection system.



### Internet Presence and Communication

#### Web & Networking

- Web Server
- Resource Sharing
- FTP Server
- LDAP Server

Provides all the necessary tools and applications to secure Internet presence, a key critical requirement to compete and win in the 21<sup>st</sup> Century. Local and remote users can securely access all network resources including storage devices, files and printers.



### Unified IP Communications Infrastructure

#### Convergence of Voice, Video and Data

- Full-featured IP PBX delivering many telephony features
- Support for wide range of terminals: Analog, IP phones and softphones, wireless (Wi-Fi) and IP DECT
- Auto-provisioning of Msona IP Phones
- Video-conferencing

Provides a fully integrated enterprise-level voice services with professional call handling capabilities such as Automatic Call Distribution, hunt groups, auto attendant, digital receptionist, IVR, voicemail to E-mail forwarding..etc.



### Eliminate Costly Interruption to Business Operations

#### Business Continuity

- Quick Back-up & Recovery
- Redundant Internet Connectivity
- Load-balancing/sharing
- Back-up & Anti-Virus

Increases business uptime by guarding company's electronic assets safe, protecting resources, supporting resilient Internet connections from different ISPs and providing quick and seamless recovery procedure.



### Seamless Integration with Windows® Environment

#### Windows® Workgroups & Domains Support

Transparent connectivity with Microsoft Windows® networks for sharing files and network resources with full support for Workgroups and Domains.



### Network Protection

#### Network Access Control (NAC)

- 802.1x Authentication
- MAC-based Authentication (Allied Telesis switches only)
- Web-based Authentication \*\*\*

Network Access Control seamlessly controls access admission over wired and wireless networks and protects it from the inside by monitoring and enforcing endpoint security. It controls who can go where on the network and detects and isolates rogue devices. It can also provision limited network access for contractors and guests. (NAC is optional)



### Round-the-clock Collaboration

#### Email & Groupware

- Integrates robust Email Server
- Microsoft Outlook®-compatible infrastructure
- Webmail access
- Email logging for Regulatory Compliance

Improves communications and productivity through a Microsoft Exchange®-like e-mail and groupware server experience. Users can seamlessly access emails and share calendars, contacts, tasks, folders, company news internally or remotely. In addition, Anti-Virus and Anti-Spam filtering is provided through subscription to mRepublic managed services\*.



### Quick Setup and Management

#### Intuitive Web Management GUI

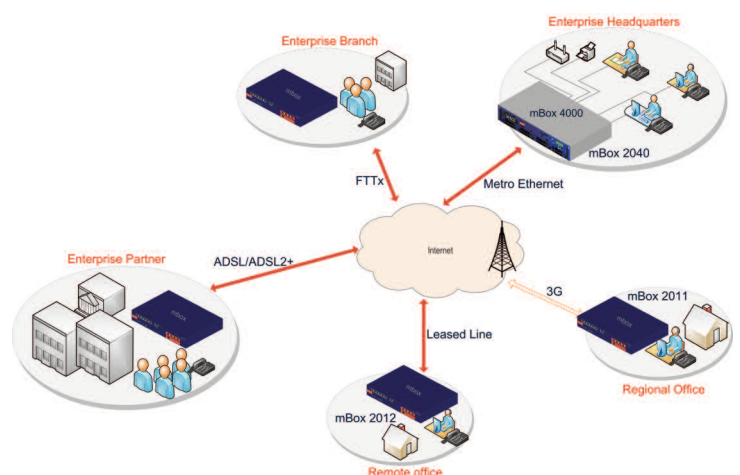
No technical skills are needed to quickly set-up the mBox system via Web-based QuickStart tool and configuration menus. For more experienced users, mBox system can be accessed via SSH.



### Ease of Use and Administration

#### Radical Simplicity

Quick deployment and management of ICT infrastructure including Broadband connection, email & web servers, security and resource sharing for maximum productivity and efficiency.



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



**Location-Independent Secure Network Access**

**Secure Remote Connectivity (VPN)**

- Remote Access for mobile users
- Office-to-Office Connection

Users on the move and in branch offices can securely gain access to network resources, exchange information and share access to organization’s ICT infrastructure.



**Eliminate Cyberslacking & Enhance Quality of Experience (QoE)**

**Productivity & Responsiveness**

- Web Proxy Server
- Content Filtering & Caching
- Single sign-on

Users are connected to the Internet with total control and security while reducing bandwidth usage and speeding up web browsing. Content filtering enforces Web usage policies and Caching improves response time and performance. Single sign-on gives users access to all resources and services - without being prompted to log in again - for better overall QoE of their ICT infrastructure.



**mWatch Internet Traffic Monitoring \*\*\***

**Increase Productivity and Ensure Regulatory Compliance**

- Track Internet activity and usage
- Logging of Internet Traffic
- Real-time Monitoring of Web, Mail & Chat traffic

mWtach Internet Traffic Monitoring module provides the ability to monitor downloaded and transferred files (Web, FTP), sent and received emails (SMTP, POP3, IMAP, Gmail, Hotmail, Yahoo!) as well as sent and received chat messages (MSN, Yahoo!, ICQ, AIM, Jabber, Facebook, IRC). mWatch Internet Traffic Monitoring system stores all captured data in the mBox and presents it in a convenient and easy-to-read format. The application’s intuitive user interface makes it an effective and easy-to-use tool and offers employers and government authorities full insight into all traffic passing through the mBox system.



**mBox 2000 Series Family**

Optimised for small/medium enterprises and branch offices, the mBox 2000 Series bring the benefits of unified IP communications, unified threat management and Broadband gateway in one compact all-in-one device.

**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.

**Additional Products**

**Delivering mRepublic™ Managed Services**

mRepublic is a family of value-add subscription-based managed ICT services delivered from Msona’s mCloud™ service delivery network to mBox appliances and covering a wide range of applications including: networking, communications, security, collaboration, backup and service assurance.

**Web Presence**

- DNS Services
- Dynamic DNS Service

**Mailbox Critical Services**

- Mail Continuity Service
- Mail Sanitization Services (SaaS Anti-virus & Anti-spam)

**Security Management**

- Web Content Filtering Update
- Intrusion Detection / Prevention
- Security Audit

**Software Management**

- Software Updates & Maintenance

**Collaboration & Networking**

- mGroupware for Microsoft Outlook®

**Content Management**

- mStorage Remote Back-up

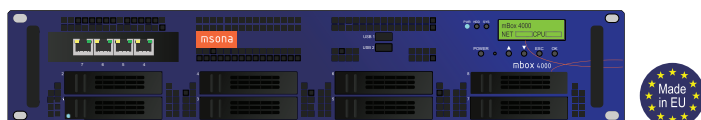
**Service Assurance**

- System Health Monitor
- Port Monitor
- Resource Monitor
- Weekly Report

## Hardware Specifications

### Base Unit

mBox 4000 Multi-service Internet Appliance  
 8 GbE Managed Ports (8 10/100/1000 Base-T)  
 8 Hot-pluggable Hard Disk Bays  
 2 USB Host 2.0 Ports



### Device Characteristics

	TCP/IP, DHCP, NAT, SIP, DNS, IMAP(S)/POP3(S), IPSec, OpenVPN, PPTP, HTTP(S), FTP(S), SSL, GRE, SSH
Management	Graphical User Interface (mOS), Console via USB and central management for distributed mBox deployments (mCloud)
	ETASIS EFRP-S2603 2U 600W Redundant, PMBus - 600W Netzteil, 2U Redundant - Range: 100 - 240 VAC, +/-10% (47-63 Hz) - Hold Up Time: 17ms @ 80% Load - MTBF >100,000h @25°C - Operating Temperature: 0 to 50°C - Operating Humidity: 20 to 90 % RH non-condensing - Storage Temperature: -40°C ~ 70°C - Storage Humidity: 5% ~ 95% RH non-condensing - EMI/RFI: CE, FCC class B - Safety: UL, TUV, CCC, BSMI, CB
Physical*	Rack 2U - 447 x 88 x 633mm (WxHxD) Weight Chassis: 15.5 kg Weight Chassis and package: 22.5kg (incl. rails, etc.)*.
	Council directive 2004/108/EEC on Electromagnetic Compatibility Council Directive 2006/95/ECC on Low Voltage EN 55022:2008-07, EN 55024:1998+A1:2001+A2:2003 DIN EN 61000-3-2:2010-03; DIN EN 61000-3-3:2009-06 DIN EN 60950-1:2011
	Operating Temperature: 10°C ~ 35°C Operating Humidity: 20% ~ 90% RH non-condensing Storage Temperature: -20°C ~ 65°C Storage Humidity: 5% ~ 95% RH non-condensing
	European Community Design No. 001025225-0001/2/3/4/5/6

### Configuration Options

Storage	Enterprise-grade Hard Drive	2.5" Serial SCSI (SAS) Hard Drives (RAID 5, 10 and 50 are supported)
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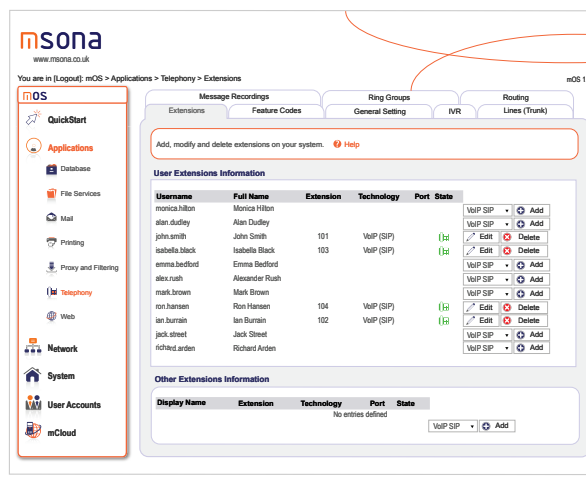
\* Subscription to Mail Sanitization Services required.

\*\*\* Check with Msona sales representative for availability in your region.

## Technical Specifications

- Support for IEEE 802.1q VLAN (up to 16 VLANs )
- Support for 802.1x Private VLAN assignment
- Support for ACL (Access Control Lists)
- Integrates DHCP Server
- All logs and alerts can be configured for forwarding to Administrator's email address.
- Support for Network Attached Storage (NAS) for backup and recovery
- IEEE 802.1x protocol for Network Access Control (optional add-on module)
- USB port for support of external storage / NAS for additional storage \*\*\*
- RIP dynamic routing support \*\*\*

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



## Ordering Information

- M100-00517-0 mBox 4001 Multi-service Internet Appliance  
 Large enterprise entry-level appliance, single multi-core Xeon processor, 8-port Gigabit Ethernet interfaces, 2 USB ports.
- M100-00518-0 mBox 4002 Multi-service Internet Appliance  
 Large enterprise enhanced appliance, dual multi-core Xeon processor, 8-port Gigabit Ethernet interfaces, 2 USB ports.

