REAL TIME
NETWORK SECURITY

NETWORK BOX
World-class technology is only half the story. Even the best technology available needs to be expertly installed, configured, managed and updated to remain effective.

Network Box security specialists sit down with each customer to determine their exact requirements and priorities. Then, they install and configure the Network Box to suit the customised requirements of that individual client.

The global network of Network Box Operation Centres monitor and manage every Network Box 24x7 (including environment, hardware, operating system, security modules and performance measures). Updated threat protection signatures and software packages are installed as soon as they are available, using Network Box proprietary PUSH technology. 3DES encryption and 2048bit RSA authentication keys protect the management and monitoring communication channels.

All Network Box Operation Centres and Service Centres offer help desk support, with a range of SLA options (including 8x5 and 24x7) to match customer requirements.

The Network Box Worldwide Network of Research, Data and Service Centres

- Australia
- Austria
- Belgium
- France
- Germany
- Gibraltar
- Hong Kong
- Indonesia
- Ireland
- Japan
- Korea
- Liechtenstein
- Luxembourg
- Malaysia
- Middle East
- Netherlands
- Russia
- Singapore
- Switzerland
- Thailand
- UK
- USA
Each Network Box system includes a built in high speed Internet cache as standard. By caching previously downloaded Internet data, not only can local Internet access speed be greatly increased, but the usage of valuable bandwidth can also be optimized. Upstream HTTP proxies are fully configurable, including support for the ICP, HTCP, CARP, WCCP and Cache Digest protocols.

### INTERNET ACCELERATION

At the heart of the Network Box system, is a global network of Network Box Operation Centres. These centres work around the clock, twenty-four hours a day, three hundred and sixty five days a year, PUSHING updates out in real-time. Once a new anti-virus, anti-SPAM or IDP signature is available, it is immediately PUSHED out to every Network Box. The average time required to update a system is currently under 45 seconds, across all the systems Network Box manages around the globe.

### FAULT TOLERANCE

The Network Box includes sophisticated heuristic threat detection engines as part of its comprehensive anti-virus, anti-SPAM and IDP modules. The heuristic engines combine cryptanalysis, statistical analysis, anomaly detection and protocol enforcement to detect and block new and emerging threats - providing protection against the latest macro and polymorphic viruses.

### PUSH UPDATES

To maximize business continuity, it is possible to install two (or more) Network Box units in high availability mode, providing total failover redundancy. This feature is available on all Network Box models. The industry-standard VRRP protocol is fully supported, to co-exist and inter-operate with existing high-availability equipment.

### HEURISTIC PROTECTION

The Network Box automatically generates comprehensive weekly and real-time alert reports. Every attack on your computer system is recorded, including the attacking IP addresses, number of hack attacks blocked, viruses and worms blocked, intrusion attempts blocked, normal SPAM marked, as well as malicious SPAM blocked.

### ALERTS & REPORTS

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### KASPERSKY DESKTOP ANTI-VIRUS (OPTIONAL)

In partnership with Kaspersky Labs, Network Box offers state-of-the-art desktop anti-virus software, integrated and managed from the Network Box gateway. The Network Box gateway acts as a centrally managed distribution point for desktop Kaspersky Anti-Virus, anti-virus signatures and licenses. Proprietary technology offers automatic quarantining of returning laptops until anti-virus signatures have been updated. The Network Box system is designed to work seamlessly with the Kaspersky desktop software to offer a complete anti-virus solution, as up-to-date on the desktop as it is on the gateway.

### H.323 GATEKEEPER

The Network Box H.323 Gatekeeper provides full gatekeeping functionality for VOIP applications (such as Microsoft Windows NetMeeting for both voice and video). Providing both incoming and outgoing call functionality, the gatekeeper transparently proxies H.323 traffic on NAT networks, and is configurable to link to PSTN or PABX systems.

### HIGH AVAILABILITY & LOAD BALANCING

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**MULTIPLE INTERNET LINKS**

All Network Boxes include support for multiple Internet connectivity as standard. This means that it is possible to simultaneously connect to two or more Internet service providers at the same time. When all connections are functioning normally, their combined bandwidth is available for use. Should one of the connections become temporarily unavailable, Internet connectivity is still available over the remaining connections.

**AMD PLATFORM**

Each Network Box is built on a high performance AMD hardware platform. This provides for wire speed performance; without sacrificing the quality of the scan and without the drawbacks inherent in hardware-only designs. QuantiSpeed architecture includes superscalar, superpipelined, hardware data prefetch, and exclusive speculative Translation Lookaside Buffers (TLBs).

**WORLD-CLASS SIGNATURE DATABASE**

Network Box includes a world-class signature database, covering over 76,000 viruses, worms, spy wares and Trojans; 10,500 anti-SPAM; 250 active-IDP and over 6 million URLs for content filtering. And this database is being updated in real-time, all of the time.

**QUALITY OF SERVICE CONTROL**

However much communications bandwidth an organization has at its disposal, it is impossible to guarantee that it will always be enough. Built into every Network Box system is the next best thing, the ability to allocate bandwidth and to shape communications traffic. By intelligently controlling traffic usage, for example to allocate 30% to email, 30% to FTP and the remaining 40% to web access, it is possible to ensure that vital communication channels are always kept open.
The Surf Control content filtering engine, from the world's #1 web and email filtering company, is based on a categorization database covering over 6 million websites, in 65 languages spread across 200 countries. Included with every Network Box, the system is fully customisable by the administrator through a web browser interface. Policies can be set per authenticated user or IP address, and can also be restricted by time, date, protocol, method or URL category. Authentication options include Windows domain controllers, LDAP directory servers and locally defined users.

The Network Box Anti-SPAM email gateway achieves an industry-record 95% detection rate, with almost zero false-positives. Combining comprehensive header-analysis, with full-textual analysis of the message body, as well as attachments, the system constantly tunes itself to improve the SPAM "hit-rate." Multiple techniques are simultaneously utilized, including distributed mail signature databases, DNS lookups, real-time blacklists and URL categorization against the SurfControl database of more than 6 million URLs. Bayesian filtering and heuristic tests are also supported, and used alongside auto-white listing to further increase accuracy. The system is user-configurable with customized rules, white lists and black lists.

The Network Box anti-virus gateway, in partnership with Kaspersky Labs, provides a multi-layered, multi-engine approach to effectively block both known and unknown viruses. A signature database, updated in real-time using high speed PUSH technology, provides comprehensive recognition of more than 76,000 known viruses, worms, spywares, Trojans and general malware threats. More than 670 different compression and encoding formats are supported. For new and emerging threats, the state-of-the-art heuristic analyser uses both cryptanalysis and statistical analysis techniques to block even previously unknown viruses and worms.

The Network Box VPN supports PPTP, L2TP, GRE and IPSEC protocols; in client, server and "road warrior" configurations. Modular configuration permits multiple encapsulation layers, such as L2TP within IPSEC. PSK, RSA PKI and X509 certificates are available for IPSEC authentication, with all secure encryption standards (including 3DES, AES, Blowfish and CAST) fully supported. 128/256 bit encryption keys are available, and 4,096 bit certificates and keys are supported for authentication. Most major VPN servers (such as Microsoft, Cisco, Checkpoint and Symantec) can be connected to Network Box.
**Technical Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Independent Network Connections</th>
<th>Threat-Types Protected Against</th>
<th>IP Address Requirements</th>
<th>Other Indications Lights</th>
<th>Front-Panel Display</th>
<th>Power Supply</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Type</th>
</tr>
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<tr>
<td>SOHO-200</td>
<td>2x 10/100baseT</td>
<td>Viruses, eMail, Hacking, Denial of Service, Software Vulnerabilities, SPAM, Company Policy Violation</td>
<td>Requires 1 public IP address (static or dynamic IPv4) for Internet Connection</td>
<td>2 (Network / Protection), 4 (Health / Threat Indication Lights)</td>
<td>20x Vacuum Fluorescent Display with 7 key pad for easy operator control</td>
<td>115-230V, 60-50Hz</td>
<td>15lbs / 7kg</td>
<td>115x285x390mm</td>
<td>321 (86x428x594mm)</td>
</tr>
<tr>
<td>RM-300</td>
<td>4x 10/100baseT</td>
<td></td>
<td></td>
<td>2 (hard disk, power), 3 (2x hard disk, power)</td>
<td></td>
<td>100-240V, 50-60Hz</td>
<td>30lbs / 13.5kg</td>
<td>211 (86x428x594mm)</td>
<td>3U (132x428x638mm)</td>
</tr>
<tr>
<td>MC-300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>240V, 50Hz</td>
<td>36lbs / 16.5kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GB-1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>115-230V, 60-50Hz</td>
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**VPN Features**

- **IPSEC** Encryption Algorithms: IPSEC, L2TP, PPTP, GRE
- **IPSEC Digest Algorithms**: MD5, SHA1, SHA2
- **IPSEC Key Sizes Supported**: 168/192bit 3DES, 128/256bit AES, 256/512bit SHA2, 2048-bit RSA
- **IPSEC VPNs Supported**: >200 tested
- **IPSEC Throughput (3DES & Firewall rules)**: 46 Mbps, 82 Mbps, 89 Mbps
- **IPSEC Throughput (AES & firewall rules)**: 58 Mbps, 89 Mbps, 110 Mbps
- **Protocols for Scanning / Detection**: SMTP, POP3, IMAP4, FTP
- **Maximum Message Size**: Configurable, but at least 1000Bytes
- **Anti-Relay Protection**: Protects LAN, Protects DMZ or LAN hosted SMTP mail servers from relay abuse
- **Basic Encoding Methods Supported**: MIME, QUICDENCE, BASE64, TEXT
- **Protocols Supported**: HTTP, HTTPS, FTP, Gopher, WAIS
- **Source User Filtering**: HTTP, HTTPS, FTP, Gopher, WAIS
- **Alertness Engine**: Heuristic and Signature-Based state of the art anti-virus engines
- **Email Anti-Virus Scanning Throughput**: 11,500 messages/hour, 22,000 messages/hour, 23,000+ messages/hour
- **Basic Encoding Methods Supported**: MIME, QUICDENCE, BASE64, TEXT
- **Protocols Supported**: HTTPS, HTTP, SMTP, POP3, IMAP4
- **Email Anti-Spam Scanning Throughput**: 8,500 messages/hour, 15,500 messages/hour, 18,500+ messages/hour
- **Basic Encoding Methods Supported**: MIME, QUICDENCE, BASE64, TEXT
- **Protocols Supported**: HTTP, HTTPS, FTP, Gopher, WAIS
- **Source User Filtering**: HTTP, HTTPS, FTP, Gopher, WAIS
- **Alertness Engine**: Heuristic, Signature, RBL and Bayesian state of the art Anti-Spam engines
- **Email Anti-Spam Scanning Throughput**: 8,500 messages/hour, 15,500 messages/hour, 18,500+ messages/hour

**Service and Support**

- **Installation / Configuration**: Network Box is fully configured and installed after consultation with customer requirements
- **Software Configuration**: Periodic verification of protected services and configuration
- **Update Service**: Real-time 24 hours per day, 7 days per week
- **Just-In-Time Updates**: Real-time updates of latest threat signatures for protection against blended threats
- **Update Security**: 2048bit code signing (client and server certificates), 192bit encryption
- **Reporting**: Real-time and Periodic (summary), by SMTP email
- **Configuration Backup**: All configuration information remotely archived (can reconfigure replacement box within 1 minute)
- **Maintenance**: Hardware, Signatures (virus, threat, SPAM, etc), Remote System Monitoring

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