Large organizations and distributed enterprises often experience critical security issues. To constantly keep the protection at a high level the support of a reliable hardware appliance is needed.

The Macro 250 and 500 offer integrated security services such as stateful inspection firewall, VPN, gateway anti-virus, anti-spam, web and email content filtering as well as a powerful hotspot in a single product.

### Highlights
- 8 Ethernet ports
- 4 / 8 GB RAM
- 2x320 / 2x500 GB Hard disk
- LAN-Bypass
- Rack 1U

### Performance

<table>
<thead>
<tr>
<th></th>
<th>Macro 250</th>
<th>Macro 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firewall Throughput</td>
<td>5.5 Gbit/s</td>
<td>10 Gbit/s</td>
</tr>
<tr>
<td>VPN Throughput</td>
<td>900 Mbit/s</td>
<td>1,4 Gbit/s</td>
</tr>
<tr>
<td>IPS Throughput</td>
<td>1.5 Gbit/s</td>
<td>2,2 Gbit/s</td>
</tr>
<tr>
<td>Antivirus Throughput</td>
<td>1.8 Gbit/s</td>
<td>3.1 Gbit/s</td>
</tr>
<tr>
<td>Web Security Throughput</td>
<td>5 Gbit/s</td>
<td>6 Gbit/s</td>
</tr>
<tr>
<td>Concurrent Sessions</td>
<td>1,500,000</td>
<td>2,500,000</td>
</tr>
</tbody>
</table>

### Hardware

<table>
<thead>
<tr>
<th></th>
<th>Macro 250</th>
<th>Macro 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case</td>
<td>Rack 1U</td>
<td>Rack 1U</td>
</tr>
<tr>
<td>Dimensions</td>
<td>44mm x 430mm x 400mm</td>
<td>44mm x 430mm x 400mm</td>
</tr>
<tr>
<td>Weight</td>
<td>8 kg</td>
<td>8 kg</td>
</tr>
<tr>
<td>Memory</td>
<td>4 GB</td>
<td>8 GB</td>
</tr>
<tr>
<td>Storage</td>
<td>2x 320 GB HDD Raid</td>
<td>2x 500 GB HDD Raid</td>
</tr>
<tr>
<td>Networking</td>
<td>8x Gigabit Ethernet</td>
<td>8x Gigabit Ethernet</td>
</tr>
<tr>
<td>LAN Bypass</td>
<td>4 Pairs</td>
<td>4 Pairs</td>
</tr>
<tr>
<td>Power Supply</td>
<td>250W Internal</td>
<td>250W Internal</td>
</tr>
<tr>
<td>Cooling</td>
<td>Fans</td>
<td>Fans</td>
</tr>
<tr>
<td>LCD Display</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>VGA</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Hardware Warranty</td>
<td>included in maintenance</td>
<td>included in maintenance</td>
</tr>
<tr>
<td>Certifications</td>
<td>FCC/CE/RoHS</td>
<td>FCC/CE/RoHS</td>
</tr>
</tbody>
</table>
Endian UTM Features

Network Security
- Stateful packet firewall
- Application control (including Facebook, Twitter, Skype, WhatsApp and more)
- Demilitarized zone (DMZ)
- Intrusion detection and prevention
- Multiple public IP addresses
- Multiple WAN
- Quality of service and bandwidth management
- SNMP support
- VoIP/SIP support
- SYN/ICMP flood protection
- VLAN support (IEEE 802.1Q trunking)
- DNS proxy/routing
- Anti-spam
- Phishing protection

Web Security
- HTTP & FTP proxies
- HTTPS filtering
- Transparent proxy support
- URL blacklist
- Authentication: Local, RADIUS, LDAP, Active Directory
- NTLM single sign-on
- Group-based and user-based web content filter
- Time based access control with multiple time intervals
- Panda cloud-based anti-virus
- Cyber URL filter
- SafeSearch enforcement

Mail Security
- SMTP & POP3 proxies
- Anti-spy with bays, pattern and SPF
- Heuristics, black- and whitelists support
- Anti-virus
- Transparent proxy support
- Email quarantine management
- Spam auto-learning
- Transparent mail forwarding (BCC)
- Greylisting
- Cyber anti-spam
- Panda cloud-based anti-virus

WAN Failover
- Automatic WAN uplink failover
- Monitoring of WAN uplinks
- Uplink types: Ethernet (static/DHCP), PPPoE, PPTP
- Support for UMTS/GPRS/3G USB dongles

User Authentication
- Active Directory / NTLM
- LDAP
- Radius
- Local

Virtual Private Networking
IPsec
- Hash algorithms: MD5, SHA1, SHA2 256/384/512-bit, AESX256
- Diffie Hellman modes: 1, 2, 5, 14, 15, 16, 17, 18, 22, 23, 24
- Authentication: pre-shared key (PSK), RSA keys, X.509 certificates, IKEv1, IKEv2, Dead Peer Detection (DPD), NAT traversal
- Compression
- Perfect Forward Secrecy (PFS)
- VPN Site-to-Site
- VPN Client-to-Site (roadwarrior)
- L2TP user authentication
- XAUTH user authentication

OpenVPN
- Encryption: DES, 3DES, AES 128/192/256-bit, CAST5, Blowfish
- Authentication: pre-shared key, X.509 certificates
- Support for VPN over HTTP Proxy
- PPTP passthrough
- VPN client-to-site (roadwarrior)
- VPN client for Microsoft Windows and Apple OS X
- Possibility of multiple logins per user
- VPN failover
- Multiple server support
- Support for mobile devices (Android, iOS)

VPN Portal for Clientless Connections
- Web-based access to internal resources
- Configurable portal page
- Support for multiple destinations
- Destination-based authentication
- SSL offloading

User Management & Authentication
- Unified user management for Open-VPN, L2TP, XAUTH, VPN Portal
- Group management
- Integrated certificate authority
- External certificate authority support
- User password and certificate management
- Multiple authentication servers (local, LDAP, Active Directory, RADIUS)
- Fully integrated one-time password (OTP) support
- Let’s Encrypt Support

BYOD / Hotspot*
- Configurable captive portal
- Use your website as portal (SurfNow Button)
- Free access to allowed sites (walled garden)
- Wired / wireless support
- Integrated RADIUS service
- Connection logging
- Bandwidth limiting based on user, ticket or global settings
- Social login (Facebook, Google)
- Social Enabler (sharing on social networks)
- MAC-address based user accounts
- Configurable multiple logins per user
- User accounts import/export via CSV
- User password recovery
- Automatic client network configuration (support for DHCP and static IP)
- Fully integrated accounting
- Generic JSON API for external accounting and third party integration
- Instant WLAN ticket shop (Smart-Connect)
- Single-click ticket generation (Quick ticket)
- SMS/e-mail user validation and ticketing
- Pre-/postpaid and free tickets
- Time-/traffic-based tickets
- Configurable ticket validity
- Terms of Service confirmation
- MAC address tracking for free hotspots
- Cyclic/recurring tickets (daily, weekly, monthly, yearly)
- Remember user after first authentication (SmartLogin)
- Multi-location setup through master/satellite configuration**
- External authentication server (Local, LDAP, Active Directory, RADIUS)

Network Address Translation
- Destination NAT
- Incoming routed traffic
- One-to-one NAT
- Source NAT (SNAT)
- IPsec NAT traversal

Routing
- Static routes
- Source-based routing
- Destination-based routing
- Policy-based routing (based on interface, MAC address, protocol or port)

Bridging
- Firewall stealth mode
- OSI layer 2 firewall functionality
- Spanning tree
- Unlimited interfaces per bridge

High Availability
- Hot standby (active/passive)
- Node data/configuration synchronization (not for BYOD/Hotspot)

Event Management
- More than 30 individually configurable events
- Email notifications
- SMS notifications
- Powerful Python Scripting Engine

Logging and Reporting
- Reporting dashboard
- Detailed system, web, email, attack and virus reports
- Live network traffic monitoring (powered by ntopng)
- Live log viewer
- Detailed user-based web access report (not in Mini 10 and Mini 10 WiFi)
- Network/system/performance statistics
- Rule-based logging settings (firewall rules)
- Syslog: local or remote
- OpenTSA trusted timestamping

Extra Services
- NTP (Network Time Protocol)
- DHCP server
- SNMP server
- Dynamic DNS

Management / GUI
- Centralized management through Endian Network (SSL)
- Easy Web-Based Administration (SSL)
- Multi-language web interface (English, Italian, German, Japanese, Spanish, Portuguese, Chinese, Russian, Turkish)
- Secure remote SSH/SCP access
- Serial console

Updates and Backups
- Centralized updates through Endian Network
- Scheduled automatic backups
- Encrypted backups via email
- Instant recovery / Backup to USB stick (Endian Recovery Key)

* Not in UTM Software 10, UTM Virtual 10, UTM Mini 10, UTM Mini 10 WiFi
** Master functionality not in UTM Mini 25, UTM Mini 25 WiFi and UTM Mercury 50

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