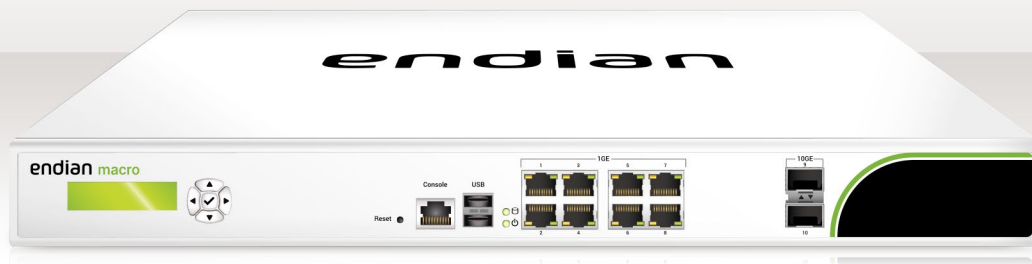


# Endian Macro

Endian UTM-Hardware-Appliance - Sicherheit für große Netzwerke



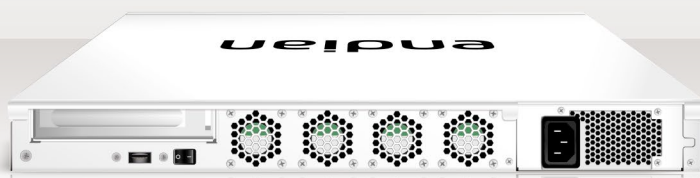
Endian UTM Macro bietet erstklassige UTM-Leistungen für große Netzwerke. Diese Appliance bietet außerdem ein Höchstmaß an Verfügbarkeit mit einem redundanten und schnellen SSD-Speicher sowie erweiterte Konnektivität inklusive 10GbE SFP+ Ports.

Der Einsatz von Endian Macro stellt sicher, dass Ihre Unternehmensnetzwerke mit den schnellsten und leistungsfähigsten Endian UTM-Funktionen ausgestattet sind, einschließlich Firewall, Web-/E-Mail-Filterung, IPS (Intrusion Prevention) und vieles mehr.

Dank der flexiblen Wartungsoptionen passt Endian Macro in jedes große Netzwerkszenario von 250 bis zu 1000 IPs.

## Highlights

- ✓ Von 250 bis 1000 Nodes
- ✓ 8x Gbit Ethernet
- ✓ 2x 10 Gbit Ethernet SFP+
- ✓ 32 GB DDR4 RAM
- ✓ 2x SSD 512Gb
- ✓ Rack 1U



| Performance*                            | Macro      |
|---|------------|
| Firewall Durchsatz                      | 30 Gbit/s  |
| VPN Durchsatz (IPsec & SSL)             | 2,8 Gbit/s |
| IPS Durchsatz                           | 3,8 Gbit/s |
| Antivirus Durchsatz (Proxy)             | 5,0 Gbit/s |
| Web Security Durchsatz                  | 10 Gbit/s  |
| Gleichzeitige Verbindungen              | 5.000.000  |
| Max. Gleichzeitige Hotspot-Verbindungen | Unlimited  |

| Hardware         | Macro  |
|------------------|--|
| Gehäuseart       | Rack 1U  |
| Maße (Appliance) | 440mm (W) x 364mm (D) x 44mm (H)   |
| Maße (Box)       | 555mm (W) x 495mm (D) x 193mm (H)  |
| Gewicht          | 5,5 kg   |
| CPU              | 6 Cores / 12 Threads   |
| Arbeitsspeicher  | 32 GB  |
| Festplatte       | 2x 512 GB SSD Raid   |
| Networking       | <ul style="list-style-type: none"> <li>• 8x Gigabit Ethernet</li> <li>• 2x 10Gbit Ethernet SFP+</li> </ul> |
| LAN Bypass       | 2 Pairs  |
| Netzteil         | 250W Internal  |
| Cooling          | Fans   |
| LCD Display      | Yes  |
| VGA              | -  |
| Hardwaregarantie | included in maintenance  |
| Zertifizierungen | FCC/CE/RoHS  |

\*Maximaler Durchsatz, gemessen unter idealen Testbedingungen und unter Verwendung mehrerer Datenströme über mehrere Anschlüsse. Die tatsächliche Leistung kann je nach Netzwerkbedingungen und aktivierten Diensten variieren.

# Endian Network Security Features

## Network Security

- Stateful packet firewall
- Application control (including Facebook, Twitter, Skype, WhatsApp...)
- Demilitarized zone (DMZ)
- Intrusion Detection (Passive) and Prevention (Active) Modes
- Multiple public IP addresses
- Multiple WAN
- Quality of service and bandwidth management
- GeoIP Firewall Filtering (block/allow by country)
- SNMP support
- VoIP/SIP support
- SYN/ICMP flood protection
- VLAN support (IEEE 802.1Q trunking)
- DNS proxy/routing
- Anti-spyware
- 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
- Bitdefender Anti-malware Engine
- Bitdefender Content filter Engine
- SafeSearch enforcement

## Mail Security

- SMTP & POP3 proxies
- Anti-spam with bayes, pattern and SPF
- Heuristics, black- and whitelists support
- Anti-virus
- Transparent proxy support
- Email quarantine management
- Spam auto-learning
- Transparent mail forwarding (BCC)
- Greylisting
- Bitdefender Anti-spam Engine
- Bitdefender Anti-malware Engine

## 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

- Encryption: Null, 3DES, CAST-128, AES 128/192/256-bit,
  - Blowfish 128/192/256-bit,
  - Twofish 128/192/256-bit,
  - Serpent 128/192/256-bit,
  - Camellia 128/192/256-bit
- Hash algorithms: MD5, SHA1, SHA2 256/384/512-bit, AESXCBC
- 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 OpenVPN, 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)