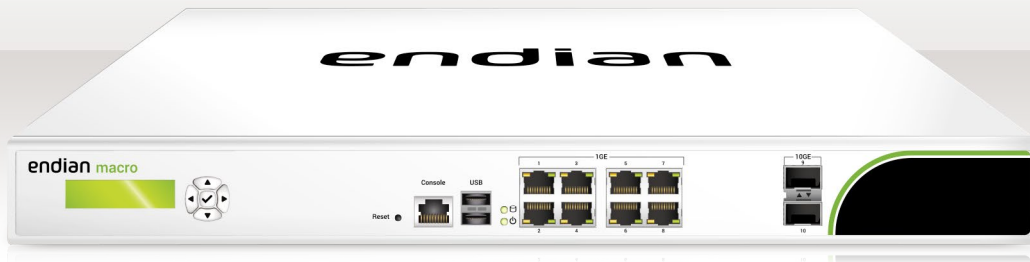


Endian Macro

Network Security Hardware Appliance designed for Large Network Applications



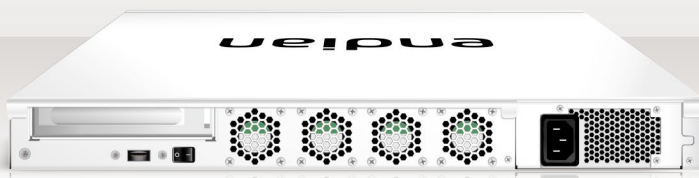
Endian UTM Macro provides class-leading UTM power for large networks. This appliance also offers the highest levels of availability with redundant and fast SSD storage and extended connectivity including 10GbE SFP+ ports.

Using Endian Macro now ensures your business networks are getting the fastest and most powerful Endian UTM capabilities, including Firewall, Web/Email Filtering, IPS (Intrusion Prevention) and so much more.

Thanks to the flexible maintenance options, Endian Macro is able to fit in any large network scenario from 250 up to 1000 IPs.

Highlights

- ✓ From 250 to 1000 nodes
- ✓ 8x Gbit Ethernet
- ✓ 2x 10Gbit Ethernet SFP+
- ✓ 32 GB DDR4 RAM
- ✓ 2x SSD 512Gb
- ✓ Rack 1U



Performance*	Macro
Firewall Throughput	30 Gbit/s
VPN Throughput (IPsec & SSL)	2.8 Gbit/s
IPS Throughput	3.8 Gbit/s
Antivirus Throughput (Proxy)	5.0 Gbit/s
Web Security Throughput	10 Gbit/s
Concurrent Sessions	5,000,000
Max Concurrent Hotspot Connections	Unlimited

Hardware	Macro
Case	Rack 1U
Dimensions (appliance)	440mm (W) x 364mm (D) x 44mm (H)
Dimensions (box)	555mm (W) x 495mm (D) x 193mm (H)
Weight	5.5 kg
CPU	6 Cores / 12 Threads
Memory	32 GB
Storage	2x 512 GB SSD Raid
Networking	<ul style="list-style-type: none"> • 8x Gigabit Ethernet • 2x 10Gbit Ethernet SFP+
LAN Bypass	2 Pairs
Power Supply	250W Internal
Cooling	Fans
LCD Display	Yes
VGA	-
Hardware Warranty	included in maintenance
Certifications	FCC/CE/RoHS

*Maximum throughput measured under ideal test conditions and using multiple flows through multiple ports. Actual performance may vary depending on network conditions and activated services.

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)