

**INTERNET ACCESS CONTROL APPLIANCE
TECHNICAL SPECIFICATIONS**

Performance & Capacity

Dimension	1U
Application Layer Throughput	160Mbps
Recommended Concurrent Users	600
Concurrent Connections (TCP)	60,000
New Connections (TCP)	1,200
Redundancy Power Supply	N/A

Hardware Specifications

RAM	2G
Storage HD Capacity	128 GB SSD
Power [Watt] (Typical)	25W
Operating Temperature	0°C~45°C
Humidity	5%~90% non-condensing
System Weight	3.4 Kg
System Dimensions	430 x 300 x 44.5 mm

Compliance

Certifications	CE, FCC, IPV6 Ready
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Network Interfaces

Bypass (Copper)	1 pair
10/100/1000 Base-T	4
SFP	N/A
10G Fiber SFP+	N/A
Serial Port	1 x RJ45
USB Port	2

Key Features

Unified Management of all Clients in the Entire Network
Intelligent Control with Visibility of User Behavior & Trac
Simple & Intuitive Reporting for Simpler Network Management
Business Intelligence
Support SSL decryption at gateway level
Support SSL decryption at client level
Support TLS 1.3
Support deployment with certification distribution into client endpoint with self-signed or own private certificate

Blocking Proxy Avoidance Capability

Must support anti-proxy function, support proxy tools block such as FreeGate, Ultrasurf, Psiphon, TOR, FreeVPN, Green VPN, Opera Turbo, TunaProxy, Waysonline, Zenmate, AdNet, VPN123, secure vpn.

Centralized management

Multiple devices can be managed and configured on the same platform.

Hierarchical administration

Must support hierarchical administrator privileges. Functionality of different modules can be assigned to different administrators as needed, via a hierarchical management model; Administration of different functions and modules can be delegated to different administrative groups.

Content log

Support Content log including IM chat (Gtalk, Skype, QQ, Yahoo! Messenger); SMTP and Web mail content and attachment (Gmail, Yahoo, exchange), keyword search (Google, Bing).

Intelligent identification rules

Support identify traffic intelligently through dynamic flow characteristics analysis such as P2P, Proxy tools, SSL.

TRAFFIC IDENTIFICATION AND CATEGORIZATION**On-disk URL database**

Support local URL database.
Support at least ten million of URL records.
Support sub categories at least: pornographic, gambling, games, illegal drugs, financial, education, counteraction & other illegalities
Support administrator self-defined URL groups.

International bandwidth control

Support with precise identify and manage international bandwidth. Make overseas traffic visible. Manage regional and overseas traffic respectively. Control overseas traffic.

Advanced P2P control

Support precise identification and manage known, variant, encrypted and unknown P2P behaviours. Support application at least Xunlei P2P, BT, eMule, Ares, BitTorrent sync, P2P-NAT, P2P Behavior

BM objects

Must support BM base on application types, website types, file types, users, schedules, destination IP, end point types (PC, mobile phone).

Enhanced social media application control

Must support encrypt social media application management at least Facebook, Twitter, Instagram, Linkedin.

Enhanced forums management

Must support identification and control for forums such as detik.com, compass.com, support content filtering based on key words.

Support audit of forums and web sites, including record of destination URL, title, content, support content search based on key word in management center;

Keywords filtering

Must support keywords filtering for search engine, at least Google, Yahoo, Bing.

File filter

Must support control HTTP, FTP upload and download activity based on file type at least docx, xlsx, pptx, txt, rar, bat, exe, pdf, zip, rar, gz, bz2, Z, tgz, tbz, 7z, cab, bz.

SSL traffic control

Support SSL protocol application identification and control, including Facebook, Twitter, Youtube, Google search, Dropbox, Skype, Wechat, Web-Wechat, QQ, Facebook messenger, Line, Telegram, Whatsapp and HTTPS based website from both PC and smart phone

Proxy control

Must support anti-proxy function, support proxy tools identification and control such as FreeGate, Ultrasurf, Psiphon, TOR, FreeVPN, Green VPN, Opera Turbo, TunaProxy, Waysonline, Zenmate, AdNet, VPN123, secure vpn.

URL filter

Must support ten million URLs of URL database, must include sub categories such as pornographic, gambling, games, illegal drugs, counteraction, financial, education in URL database.

Must support self-define URL groups.

Must support filter the websites base on URL, searching keyword, file types. Must support URL redirect to specific page if system block some illegal URLs, must support customization of this page.

Enhanced email control

Must support control and audit the email base on source address, destination address, keywords in email, keywords in body/title, attachment type/size/count .

Must support block and audit Gmail, Yahoo mail, Hotmail via Foxmail, Outlook, Flashmail client.

Must support block and audit web mail base on sender/receiver information, key word, attachment file type for application such as exchange, hotmail.

Application control

Application Database must support more than 2500 app rules, support cloud, web and mobile application categories and must support self-define app rules.

Must support application database update in every 2 weeks

Integration and authentication option

Must support single sign-on authentication base on Active Directory, Radius, POP3, Proxy, Web Server, HTTP API, Database Server. Support integration with SMS authentication, Facebook authentication, WeChat authentication, QR code authentication, and other popular authentication methods.

User self registration

User can submit the application information, and then IT administrator can approve the application, support add new item of information collection

Software Features**User Authentication and Management**

Mapping and identifying users

IP/MAC binding, hostname,USB Key, SMS, QR-Code, Portal, WeChat, Facebook, etc

User accounts importing and synchronizing from LDAP,CAM3, etc.

SSO integration: AD/POP3/Proxy/Radius, 3rd party authentication device and DB Server.

Access Control

Application control

URL filtering

Search Engine Control, Enhanced Email IM control

File filtering

SSL traffic control

Illegal Wi-Fi & proxy tools control

Bandwidth Management

BM according to specific object/policy

International & Domestic BM

Bandwidth Guarantee & Limitation

Multi-level SON Channel

Dynamic BM

Virtual line

Multiplexing and intelligent routing.

Report Center

Report based on application trac, user behavior, etc.
Graphical reports by counts, ranking, comparison, trends analysis with statistics, pie, bar, line chart, etc.
Real time report
Content log for IM chat records, emails, forum posts, etc
Customized CIO report
Built-in internal and optional external report center
Export to CSV or PDF format.

Management & Deployment

Centralized management support
Proxy functions:
HTTP/HTTPS Sockets 4/5, ICAP | HA support (A/A,A/P),
Hardware bypass
Deployment mode: Route, Bridge, Double Bridge, Bypass, Single-arm
Built-in Firewall
IPsec VPN

SUBSCRIPTION BUNDLES for one (1) Year

URL Database 1 year License

Software and Technical Support Only, 1 year

Return To Factory Hardware Support

Only, 1 year

Scope of Work

a. Supply, Delivery and Implementation

Traning and Certifcate included