AnexGATE USG

MADE IN INDIA
DESIGN, DEVELOPMENT AND MANUFACTURING

AnexGATE - AG750 Datasheet

The AnexGATE - AG750 is a powerful, reliable, and robust Unified Security Gateway (USG) appliance, specifically designed to meet the extensive and demanding network requirements of modern businesses, delivering high performance, advanced security, and seamless connectivity.

v1.0_12-2025

All-In-One Unified Security Gateway

Threat Management

- L3-L7 Firewall
- Intrusion Detection & Prevention
- Gateway Level Antivirus
- Malware Sandbox Integration
- Daily Threat Intelligence and Database Updates
- AI Malware Analyst Agent Integration

Persistent Connectivity

- SD-WAN Controller and Application Awareness
- Bandwidth Aggregation, Auto Failover and Load Balance
- Policy, Priority, SD-WAN Policy Based Routing
- 3G/4G USB Dongle/Tethering support
- High Availability with Clustering

Next Generation Appliance

- Advanced DPI based Filtering
- TLS Interception with AV, Web Security, DLP and IDS/IPS
- AAA Controller with Multi backend Authentication and 2FA Support
- Virtual Firewalls, AI Data Leak Prevention Agent

Productivity Assurance

- WiFi HotSpot Management for BYOD
- Domain, URL and Application Filtering
- Granular Bandwidth Management
- Guaranteed Bandwidth Allocation for Applications and/or Users
- Live Traffic View

Secure Access with 2FA

- Device Agnostic IPSec VPN Support
- Seamless One-Click Secure SSL VPN with AnexGate ACE
- Endpoint VPN with 2FA for Roaming Users

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DESCRIPTION	SPECIFICATION
Type [UTM/NGFW/Firewall]	NGFW+UTM
Form Factor (RU)	1U
Features	Layer 3 - Layer 4, NAT, VPN, Application Visibility and Control (AVC), User Identity, Next Generation Intrusion Prevention System (IPS), Zero Day Protection/Advance Malware Protection, Web Security Essentials/URL Filtering
Throughput with all features enabled (Under Test Condition) (Mbps) [1]	25000
Throughput (Real World/Prod Performance) (Under Test Condition) (Mbps) [1]	23000
Firewall Throughput (Mbps) [1]	23400
Threat Protection Throughput (Mbps) [1]	4940
NGFW Throughput (Mbps) [1]	8840
IPS Throughput (Mbps) [1]	14040
UTM Throughput (Mbps) [1]	3250
Concurrent Session/Concurrent Connection	15M
New Session/Connection Per Second	350K
High Availability	Yes - Active-Active, Active-Passive
Traffic Handled	TCP, UDP, TCP/UDP, HTTP/TCP, HTTPS, FTP, SFTP, IMAP, POP3, SMTP, SSL/TLS, TELNET
Packet Size (KB)	1024
Type of Interface Supported	GE Copper, 1G/10G SFP+
Number of GE Copper Interface	6 x 1GbE
Number of 10G SFP+ Interface	4 x 10G
Number of QSFP+ 40G Interface	0
Number of GE Small Form Factor Pluggable (SFP) Interface	6 x 1G
Number of QSFP28 100G Interface	0
Number of WAN Ports [2]	2
Number of IPSec VPN Peers supported (Site to Site)	4000
Number of IPSec VPN Peers supported (Client to Site)	4000
Number of SSL VPN Peers supported (Client to Site)	2000
Type of Storage Disk	SSD
Storage Capacity (GB)	1024
Power Supplies	Dual/Single
Hot Swappable Power Supply	Yes/No
Redundant Fan	Yes
Hot Swappable (Redundant Fan)	No
Type of Processor	x86
Interface Expansion Slots Supported [3]	2
Details of the Firewall Policies for the Firewall provided with the License	Web Security Essentials/URL Filtering - Yes IPS License - Yes Application Visibility License - Yes APT (Advanced Persistent Threat) License - Yes Anti Malware Protection - Yes C&C attacks - Yes Geo IP Protection - Yes Zero Day Threat Protection - Yes Gateway Anti Virus - Yes Gateway Anti Spam - Yes
Security Intelligence	IP - Yes Domain - Yes URL - Yes Passive Detect Endpoint - Yes IOC Intelligence - Yes
NGIPS Signature supported	35000
Certification	TEC (MTCTE-ER) Unified Threat Management Variant, Common Criteria (In Progress)
IPv6 Ready from Day 1	Yes

[1] All throughput values indicated — including "Throughput with all features enabled (Under Test Condition)", "Throughput (Real World/Production Performance) (Under Test Condition)", "Firewall Throughput", "Threat Protection Throughput", "NGFW Throughput", "IPS Throughput", and "UTM Throughput" — are measured under controlled laboratory test conditions using standardized traffic mixes and packet sizes. Actual performance may vary depending on real-world network environments, enabled features, concurrent sessions, inspection profiles, encrypted traffic ratios, and hardware/software configurations.

[2] All ports can be configured as WAN Ports

[3] Expansion Slots can be populated with 4 x 1G, 8 x 1G, 4 x 10G SFP+, 4 x 1G SFP, 8 x 1G SFP and/or 2 x 40G QSFP

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NETWORKING

- Multi Link Auto Failover
- Support for 3G/4G USB Dongle/Tethering
- Weighted Round Robin & Policy based Load Balancing and Bandwidth Aggregation
- SD-WAN Controller - Dynamically evaluated software defined Policies for WAN Observation, Optimization and usage. WAN Performance based rules on Connectivity Check, Packet Loss, Jitter and Latency. Application based routing, prioritization and performance tuning
- SD-WAN rules based on Packet Loss, Jitter, Latency and Connectivity Loss
- Transport Mode, Route Mode, L3 Bridge Mode
- All Ports are configurable as LAN/WAN/DMZ/Management
- Link Configuration - Static IP address, PPPoE, DHCP Client
- IPv4, IPv6, Dual Stack IPv4+IPv6
- NAT, DNAT, SNAT, 1-to-1 NAT, NAT64 for IPv6, Pure IPv6 NAT
- IPv6 Ready - RFC8200, Neighbour Discovery (RFC4861), IPv6 SLAAC (RFC4862), Path MTU Discovery (RFC8201/1981), ICMPv6 (RFC4443)
- Routing - Static, Source, Destination & Policy Based
- VLAN Tagging Support (802.1q)
- Split Horizon DNS
- TCP Session Adherence for SD-WAN
- 802.3ad Link Aggregation (LACP)
- L2 Bridge Mode
- NetMAP - one-to-one NAT for subnets
- Jumbo Frame Support
- Create Objects on MAC/IP/Subnet/User/Group
- Virtual Firewall Implementation
- SNMP v1, v2, v3 support
- DHCP v4/v6/Dual Stack Server with Static Leases/MAC Binding, Rapid Commit and RA
- DNS Forwarder, Zone based Forwarding for AD/Domains
- NTP Support

NETWORK SECURITY

- Stateful Inspection Firewall
- Application Visibility and Control (AVC)
- Intrusion Detection and Prevention System [IPS]
- Demilitarized Zone (DMZ)
- Zone based Access Control list
- Access Scheduling
- Flooding Detection and Protection
- Automatic P2P Detection and Filtering
- Dynamic Protocol Detection
- Reverse Shell Detection
- Strict DHCP Control and DHCP Enforcement (Prohibit Static IP Usage)
- Detect & Block fake services on Ports
- LAN User Isolation (Zero Trust)
- Zero Day / Malware Protection
- Application Identification and Control Engine
- User, IP, MAC, Subnet and group-based policy
- Data security enforcement rules
- Source and destination-based control
- Port and protocol-based filtering
- Country-based access policy (GeoIP)
- Time-based security rules
- Cloud or On-Prem Sandbox Malware Analysis Integration
- Device or MAC-based policy
- DDoS attack protection
- IPS/IDS threat prevention

WEB SECURITY

- Explicit, Transparent and SSL/TLS Intercepting Proxy (HTTP, HTTPS, FTP, SFTP, IMAP, POP3, SMTP)
- Inbuilt Web Category Database
- Trusted Domains/URL/Wild Card Support
- Custom category upload support
- Safe Search Enforcement (Google/YouTube/DuckDuckGo/Yandex /Facebook)
- Group & User Based Web Access Policies
- Time Based Access Control
- Content Filtering based on Weighted Phrase
- Private Browsing support for Management Team
- HSTS Aware Proxy
- Domain Name Based and/or Proxy Filtering
- Content and File-Type control
- Threat Intelligence Integration from AnexGate Cloud
- SSL/TLS traffic inspection/filtering
- Keyword, File-Type, Content filtering
- Device-based filtering (MAC, linux)
- URL and domain white list
- Domain name based filtering
- Support TLS 1.3 with enhanced security
- Deep Packet Inspection (L3-L7)
- DPI controls app-based firewall rules

MONITORING

- Comprehensive local logging and on-appliance reporting
- Email Reports and Alerts to Multiple Email Addresses
- Real-Time traffic monitoring by Live Network Monitor
- Built-In Daily/Weekly/Monthly report with scheduled automated email
- Graphical Bandwidth Report (based on Time, Date, Week, Month)
- Built-in tools - nmap, ping, traceroute, speedtest
- Graphical real-time and historical Monitoring
- Supports Syslog and SNMP monitoring
- Command Line Interface (CLI) access via SSH/Telnet/Console
- Two-factor authentication security
- Captures all protocol & traffic logs
- Identifies top bandwidth-consuming users
- Real-time port status monitoring
- Customizable alert thresholds
- Scheduled backup and restore configuration
- Integrated audit and activity logs

INTRUSION DETECTION / PREVENTION SYSTEM

- Run in Detection(Alert Only) or Prevention(Blocking) mode
- Automatic Hourly Threat Intelligence and Signature Updates from AnexGate Cloud
- 2,00,000+ threats updated hourly
- Custom IoC definition
- Search for IoC in database
- Rules and Signature base scanning of traffic and files
- System Captures attack packets on rule trigger
- Use captured packets for deep analysis
- Capture Packet storage up to 250 MB
- Capture one PCAP per attack trigger (Max. 5 MB)
- Scans HTTP, HTTPS, FTP, SFTP, POP3, IMAP, SMTP, POP3 with SSL/TLS, IMAP with SSL/TLS, SMTP with SSL/TLS
- Attack Detection over TCP using SSL/TLS

ROUTING

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- Static Routing
- Floating Routes for Dynamic WANs
- Traffic Priority Based Routing
- Traffic Policy Based Routing
- Application based and Application aware Routing
- BGP, OSPF, RIP v1/v2
- Support for Prefix-List and Route-Map

VPN

- Support for IPSec, SSL VPN Site to Site, Client to Site Endpoint VPN, PPTP, GRE, EoGRE

IPSec VPN

- Encryption: AES CBC, AES ECB, AES CTR, RC2 CBC, 3DES CBC, AES CFB, AES CCM, AES GCM, ChaCha20 POLY1305, Camellia CCM, Camellia CBC, Camellia CTR, CAST CBC, Blowfish CBC, DES CBC, DES ECB, Serpent CBC, Twofish CBC
- Hash Algorithms: SHA1, SHA2 224bit, SHA2 256bit, SHA2 384bit, SHA2 512bit, MD5, MD4, SHA3 224bit, SHA3 256bit, SHA3 384bit, SHA3 512bit, PRF AES128 XCBC, PRF AES128 CMAC, PRF KEYED SHA1, PRF HMAC MD5, PRF HMAC SHA1, PRF HMAC SHA2 256, PRF HMAC SHA2 384, PRF HMAC SHA2 512, PRF Camellia128 XCBC, PRF FIPS SHA1 160
- Diffie Hellman modes: MODP 3072, MODP 4096, MODP 6144, MODP 8192, MODP 2048, MODP 2048 224bit, MODP 2048 256bit, MODP 1536, MODP 1024, MODP 1024 160bit, MODP 768, ECP 256, ECP 384, ECP 521, ECP 224, ECP 192, ECP 256 BP, ECP 384 BP, ECP 512 BP, ECP 224 BP, Curve 25519, Curve 448, NTRU 112, NTRU 128, NTRU 192, NTRU 256
- Authentication: pre-shared key (PSK)
- Internet Key Exchange - IKEv1, IKEv2
- Dead Peer Detection (DPD) and Perfect Forward Secrecy (PFS) Support
- Create L3 Routable Interface for VPN Tunnel
- Track Tunnel Status and Invoke Custom Actions for Up/Down events
- Full Tunnels and Split Tunnel modes
- Priority based Tunnel Failover
- Automated Tunnel Policy Addition on Tunnel Connection/Disconnection

SECURE SSL VPN

- Support Encryption: AES-128-CBC, AES-128-CFB, AES-128-CFB1, AES-128-CFB8, AES-128-GCM, AES-128-OFB, AES-192-CBC, AES-192-CFB, AES-192-CFB1, AES-192-CFB8, AES-192-GCM, AES-192-OFB, AES-256-CBC, AES-256-CFB, AES-256-CFB1, AES-256-CFB8, AES-256-GCM, AES-256-OFB, ARIA-128-CBC, ARIA-128-CFB, ARIA-128-CFB1, ARIA-128-CFB8, ARIA-128-GCM, ARIA-128-OFB, ARIA-192-CBC, ARIA-192-CFB, ARIA-192-CFB1, ARIA-192-CFB8, ARIA-192-GCM, ARIA-192-OFB, ARIA-256-CBC, ARIA-256-CFB, ARIA-256-CFB1, ARIA-256-CFB8, ARIA-256-GCM, ARIA-256-OFB, Camellia-128-CBC, Camellia-128-CFB, Camellia-128-CFB1, Camellia-128-CFB8, Camellia-128-OFB, Camellia-192-CBC, Camellia-192-CFB, Camellia-192-CFB1, Camellia-192-CFB8, Camellia-192-OFB, Camellia-256-CBC, Camellia-256-CFB, Camellia-256-CFB1, Camellia-256-CFB8, Camellia-256-OFB, Chacha20-Poly1305, SM4-CBC, SM4-CFB, SM4-OFB, DES-EDE-CBC, DES-EDE-CFB, DES-EDE-OFB, DES-EDE3-CBC, DES-EDE3-CFB, DES-EDE3-CFB1, DES-EDE3-CFB8, DES-EDE3-OFB
- Support Message Integrity: BLAKE2b512, BLAKE2s256, KECCAK-KMAC-128, KECCAK-KMAC-256, MD5, MD5-SHA1, RIPEMD160, SHA1, SHA224, SHA256, SHA3-224, SHA3-256, SHA3-384, SHA3-512, SHA384, SHA512, SHA512-224, SHA512-256, SHAKE128, SHAKE256, SM3
- Multi-layered Client Authentication: Username/Password/Certificate with SMS/Email/Time based OTP
- Support TCP & UDP tunneling
- Network Access - Split and Full Tunnel Mode
- Granular Access Control based on MAC, IP & Port
- First Party VPN client support for Android, iOS, Windows, Linux & MacOS
- Site-to-Site and Road Warrior VPN Support
- Cluster and High Availability support for VPN Servers
- Virtual VPN Container for Isolation

ENDPOINT VPN

- Multi-layered Client Authentication: Username/Password/Certificate with SMS/Email/Time based OTP
- Email/SMS OTP, TOTP and HOTP authentication
- Email-based login authentication
- Two-factor Authentication Support (SMS/E-mail/Time based/HMAC based)
- Active Directory (AD) Integration
- User and Device-based access
- Centralized VPN policy control
- Automatic reconnect and failover
- Strong encryption and data privacy
- Concurrent multi-user VPN sessions
- Detailed VPN session logging
- Public/Private Key-based VPN authentication

AAA/HOTSPOT/BYOD

- Authentication, Authorization & Accounting (AAA) Configurable Captive Portal
- Multiple Authentication mechanisms
- Mobile Number + OTP-based Login/Authorise with OTP
- Time of day, Day of week Access Rules/Time-based access rules
- Browser Activity and Time based session keep alive
- Bandwidth & Policy Control based on User, Group, Device Type, etc
- Schedule based committed & burstable Bandwidth/Time-based bandwidth policies
- Access Time / Time / Data Quota Restriction implement fair usage policy on user
- Auto MAC binding to approved BYoD devices
- Remember user after 1st login (Smart Login)
- Force password change on 1st login
- User Voucher authentication control
- Option of MAC/IP/Device Type blacklisting
- Authentication server - Local, LDAP, AD, Local + OTP
- User Accounts Import/Export via CSV Template
- Session timeout and control
- Detailed authentication logging
- Custom authentication portal creation
- SSO Login via Google/Facebook/Apple/Twitter etc..
- Add 2FA to any login flow
- Login Page Customization, Flow Customization, Custom Redirect Post Login
- Bandwidth allocation and reservation for logged in users
- Device Random MAC Detection and Usage Prevention
- Detect and Stop Tethering Usage by User post HotSpot Login
- HTTP SMS API Integration
- CAPTCHA Validation during User Login

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- Custom Walled Garden Support based on site and networks for access pre authentication

QoS/TRAFFIC SHAPING/BANDWIDTH MANAGEMENT

- User, Group, Subnet and IP based QoS
- Priority based QoS
- Application based Bandwidth Allocation
- Reserve Bandwidth for User/Group/Subnet/IP/Application
- Provide left over Bandwidth to other applications post reservation
- Define Custom applications

GATEWAY ANTI-VIRUS

- Stream-based malware scanning
- Use Dynamic Protocol Analysis to determine file type; not using extensions only
- Gateway anti-spyware detection
- Detects and alerts on viruses/malware/spyware/adware/ trojans/worms
- Automatic real-time file scanning
- Scans downloaded files based on size
- Automatic hourly virus signature updates
- Integration with AnexAI Malware Analysis Agent for Advanced Analysis
- Supports HTTP(S) (GET/PUT), (S)FTP (GET/PUT), (Secure)SMTP, (S)IMAP and (S)POP3

APPLICATION IDENTIFICATION

- 2,000+ Applications and L7 Protocols Database
- Accurate application detection engine
- Deep Packet Inspection for Application Identification
- Dynamic Application detection based on heuristics, signatures and protocol
- Create custom application profiles
- Supports Layer-7 traffic inspection
- Automatic hourly application database updates

DATA LEAK PREVENTION

- Detect URLs using hardcoded IPv4 addresses
- Detect Credit Cards with Card Number Validation
- Detect Aadhaar, PAN, Passport, IFSC and US Social Security Number
- Define custom keywords, phrases and regex wildcard patterns
- Use Dynamic Protocol Analysis to determine file type; not using extensions only
- Filter on email headers, subject, body and attachments
- Scan HTTP(S) (GET/PUT), (S)FTP (GET/PUT), (Secure)SMTP, (S)IMAP and (S)POP3
- Support full TLS interception for DLP
- Optical character recognition (OCR) scanning
- Integration with AnexAI Data Leak Prevention Agent for Advanced Analysis
- Some Features depend on TLS inspection being enabled

HIGH AVAILABILITY

- Active-Active with Clustering and State Synchronization
- Active-Active mode with Hot Spare and State Synchronization
- Active-Passive mode with Cold Spare
- VRRP based Failover
- Support upto 32 devices in HA cluster
- Heartbeat link failure detection
- Link and path health check
- Automatic Failover, Recovery and Handover
- Virtual MAC, Floating IP or Virtual IP based failover/clustering
- Zero Packet Loss Failover

MANAGEMENT / GUI

- Three Levels of users - Admin, Operator/Monitor and Employee
- Web UI (HTTP and HTTPS)
- Configuration Backup & Rollback
- Automated Device Configuration Backup on Schedule
- Firmware upgrade via Web GUI
- Command Line management via SSH/Telnet/Console
- API based configuration with API Key
- Create Virtual Domains/Firewalls, Fully Virtualized and Isolated from Main Appliance
- Integration with AnexConnect Network Monitoring System
- Integration with AnexHub for Zero Touch Deployment, Single Pane of Glass Provisioning, Remote Management and Monitoring

POWER / ENVIRONMENTAL

- Internal auto-ranging **100-240V AC, 50-60Hz**
- Consumption **250W**
- Operating Temperature **-10°C to 60°C**
- Relative Humidity **10 to 75% Non Condensing**

COMPLIANCE

- Hardware Compliance **FCC Class B, CE Emission, UL/cUL, RoHS**
- Product Compliance **TEC (MTCTE ER), Common Criteria (In Progress)**

HARDWARE SPECIFICATION

- Form Factor **1U Platform (Rack Mount)**

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