NetXGATE

MADE IN INDIA

Datasheet

NG200+

Ver.4.0.0

FULL FEATURED GIGABIT PERFORMANCE FOR MID SIZED AND DISTRIBUTED EDGE

PRODUCT HIGHLIGHT

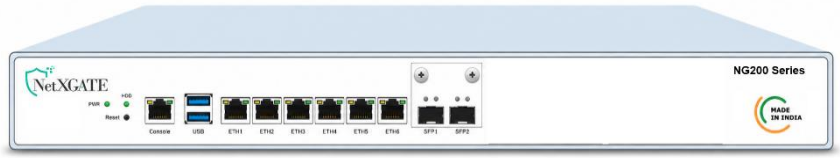
NEXT-GEN APPLIANCE
- Gigabit Interface
- Easy & User-Friendly GUI
- Zero Touch Provisioning (ZTP*)

THREAT MANAGEMNT
- Next-Gen Firewall
- Next-Gen Security: IDP/IDS/WAF
- Gateway Level AV & Anti-Spam
- Geo IP Fencing
- Web & Application Filter
- Malware Prevention
- Zero-day Protection (ZDP)
- SSL Inspection

PERSISTENT CONNECTIVITY
- Multi WAN Uplinks
- Load balancing & Link Aggregation
- Orchestrated SD-WAN Topologies (Hub & Spoke, Hub MESH, Branch MESH)
- Policy-based Routing (BGP, OSPF & Static Routes)
- Inbound Link Load Balancing (ILLB)
- High Availability (HA)
- Integrated LTE (USB and dongle LTE)
- Latency Mitigation (Intelligent path selection)

PRODUCTIVITY ASSURANCE
- AAA | HotSPOT Gateway
- QoS | Bandwidth Mgmt.
- SD-WAN
- User & Guest Mgmt.
- Surfing & Threat Reporting
- Traffic Analyser
- On-Appliance Reporting & Monitoring

SECURE ACCESS
- Secure SSL VPN (Client-Site & Site-Site)
- IPsec VPN
- Crypto VPN (Client-Site & Site-Site)



Specifically designed for Mid-Sized and distributed organisations, the NG200+ NGFW provides Multi-Gb performance with all the features and tools available in High end appliances. 1U rack-mountable unit and with a budget-friendly cost. The All-In-One appliance has been designed & engineered to combinedly serve the functionalities of **Next-Gen Firewall, HotSPOT Gateway & SD-WAN.**

Cyber threats are same for all types of modern business. Mid-Sized networks face similar threats and network demands as larger enterprises, and thus should be protected with the same corporate-level of security, without paying the corporate-level price.

It comes with built in Hotspot Gateway functionalities for individual user control on both wired and wireless network. It helps to provide secure Internet access along with lawful tracking & filtering with detailed in-built logs and reports on every configured features. Its **SD-WAN** helps to archive easier Network operation and connectivity between offices.

It is versatile, 2xscalable, robust & rack mountable.

FEATURES	HARDWARE SPECIFICATIONS
No of Ethernet Interfaces (Fixed)	2.5 GbE x 06 + SFP Fiber^x 2
Add-on Connectivity (4G/5G Module)	Optional *
Interface Expansion slots supported	Yes, Optional
Firewall Throughput	35.0 Gbps
Firewall IMIX	16.5 Gbps
Concurrent Connections	65,00,000
New Connections / Sec.	1,40,000
VPN Throughput	19.0 Gbps
NGFW Throughput	6.0 Gbps
Threat Protection Throughput	5.5 Gbps
IPS Throughput	6.5 Gbps
Type of Storage	120~256 GB / SSD
Memory /Max	8/16 GB
Firewall Policies	Unrestricted
Number of WAN Ports	05
Maximum Connections	Unrestricted
Inbound NAT Connection	Unrestricted
Local User Database	Unlimited
Rated for Concurrent Users / Devices	300~400
IPv6 Ready from day 1	Yes

SPECIFICATIONS

NETWORK Services
- Multi-Link Auto Failover.
- 4G /5G Support: SIM* |USB Dongle |Tethering
- Operating modes: NAT/route, transparent (bridge), and mixed mode
- Configurable LAN/WAN/DMZ Ports
- NAT & ALG Support - DNAT, SNAT, PAT
- Routing - Static, Source, Destination & Policy based
- Policy Rule : predefined, custom & Grouping
- Authentication, Authorization & Accounting.
- Support Multicast Forwarding, VLAN Tagging
- Static, DHCP, PAP/CHAP Support

NETWORK SECURITY
- Stateful & Deep Packet Inspection Firewall
- Application Visibility & Control.
- Demilitarized Zone (DMZ)
- Zone - based access control list.
- Access scheduling
- Flooding detection and protection
- Stops all types of DoS; Prevents DNS Spoofing & Flooding, Bypass Websites, Packet Capturing
- IP-Mac bind, MAC Whitelist / Blacklist.
- Comprehensive DNS policy.
- Zero day Protection (**ZDP**).

LINK LOAD BALANCING
- Bi-directional Link Load balancing
- Outbound link load balancing includes policy-based routing, weighted, Spill-Over and dynamic detection
- Inbound Link load balancing supports Smart DNS & dynamic detection
- Automatic link switching based on Traffic, latency, jitter, connectivity etc.
- Link health inspection with ARP, PING and DNS

URL FILTERING
- Web or URL / IP / Keyword / Port / Application Filter
- Block predefined categories on specific time
- Create | Edit | Delete Manual Categories & Add exception
- Manually defined web filtering based on URL, web content. Key word and MIME header
- Web filtering profile override: allows admin to temporarily assign different profiles to User/IP
- Additional web filtering features:
  - Force Google Safe search
  - Force educational YouTube
  - Exempt scanning encrypted connections on certain categories for privacy

USER| GUEST MANAGEMENT |AAA
- ID & Password login – fixed users
- Approval-based Login.
- Social Media & OTP based login
- BYOD Self & Voucher Registration with OTP
- Create users with auto-expiry, Renew & Block
- Seamless connectivity from Wired to W-LAN
- Auto Login /No Authentication after First Login
- Auto login based on IP & MAC or combination
- Concurrent logins, auto MAC binding
- Easy migration - import/export data
- Restrictions based on Device & OS
- Create user groups & apply policies
- Allow login only when user comes from specific segments

BANDWIDTH MANAGEMENT | QoS
- Define enhanced quality of service (QoS)
- Max/Guaranteed bandwidth tunnels or IP/User basis
- Bandwidth allocated by time, priority, or equal bandwidth sharing
- Restrict users based on data, b/w &time
- Individual and shared bandwidth quota
- Contention ratio-based bandwidth allocation.
- Schedule based committed & burstable b/w.
- Configure multiple b/w policy on a user at different hours of day

VPN | SD-WAN
- IPSec / SSL VPN - Tunnelling with failover
- Encryption – AES-256, AES-GCM, Chacha20
- Hash algorithms - MD5, SHA1, SHA-512
- Authentication – pre-shared key, certificates
- Supports IKEv1 and IKEv2.
- DH groups - 1, 2, 5, 14, 15, 16…32(Curve 448)
- NAT traversal & PFS support
- SSL authentication – AD, LDAP, radius, local
- Multi-layer client authentication - certificate, Username/password, MAC address, OTP**
- Network access - Split and Full tunnelling
- Granular access control to all network resources
- Administrative controls - session timeout, DPD
- User and group policy enforcement
- Multicast support over SSL VPN
- Secure SSL -VPN deployment modes: Client-to-site, Site-to-Site.
- View and manage IPSec and SSL VPN connections
- Supports Secure SSL VPN clients that run Windows, Linux, iOS & Android.

CAPTIVE PORTAL CAPABILITIES
- Intuitive self-service portals for users.
- Customise captive form input fields
- Mobile/desktop responsive login page
- Social media-based login, mac-based auto login
- Create hourly and day-based plans with FUP
- Accounting based on hours, days, data transfer
- Supports LDAP/AD, Radius & TACACS

INTRUSION PREVENTION
- Protocol anomaly detection, rate-based detection, custom signatures, manual, automatic push or pull signature updates, integrated threat encyclopaedia
- IPS Actions: default, monitor, block, reset (attackers IP or victim IP, incoming interface) with expiry time
- IDS sniffer mode
- Predefined prevention configuration

ADVANCE THREAT PROTECTION
- Virus, Worms, Trojan detection & removal
- Spyware, Malware, Phishing, Bot & Pharming protection
- Manual, automatic push or pull signature updates
- Scans HTTP/S, FTP, SMTP/S, POP3, IMAP
- Block files based on their type.
- Threat logs with action.
- Compressed file virus scanning
- WAF / Reverse Proxy

ATTACK DEFENCE
- Abnormal protocol attack defence
- Anti DoS / DDoS, including SYN Flood, UDP Flood, DNS Query Flood defence, TCP fragment, ICMP fragment etc.
- ARP attack defence

DATA LEAKAGE PREVENTION
- Restricts file upload over HTTP, FTP, P2P and other file sharing applications.
- Blocks file transfer (upload & Download) over IM like Facebook, Whats-app & other Social Sites .
- Controls file upload /download over HTTPS/SSL websites.
- Logging & Reporting in accordance to HIPAA, CIPA compliance.

SYSTEM MANAGEMENT
- System Configuration Backup / Restore
- Auto/ Manual backup of User & Threat Logs
- Enable appliance & PMS remote access
- Set auto/manual firmware updates
- Create Child Admins and check logs
- Set NTP, SMTP Email
- Integrate Syslog, SNMP, Net-flow
- Three levels of users: Admin | Operator | Monitor
- Dynamic real-time dashboard status and drill-in monitoring widgets

LOGS | REPORTING |MONITERING
- Real-time traffic statistic and analytics
- User Management & Account Expiry Report
- Bandwidth, Data usages & Session Report
- Web Browsing & Records surfing logs of each user
- Search logs based on User, IP, Site, Time & File Type
- Change Log Report / Activity Timeline
- Comprehensive event logs: system & admin activity audits, routing & networking, VPN, User authentications.
- User & System based overall and user wise analytics
- Real Time monitoring Tools to get visibility into network Traffic & Bandwidth consumption.
- On-Appliance (Local) Logging and reporting facilities
- Reports can be exported in PDF, Word and via email
- System information such as concurrent session, CPU, Memory and temperature.
- Support traffic information collection and forwarding via Net-flow.

ALERT MANAGEMENT
- Real-time alerts to user on data consumption limit, voucher expiry etc.
- Real-time alerts to admin on link failure & Speed, Remote Access etc.
- Schedule Alerts for specific reports

SMS GATEWAY
- Pre-configured SMS gateway**
- Click–n-configure custom gateway
- Facilitates different message templates

VULNERABILITY ASSESSMENT
- Scans LAN Devices for vulnerability
- Generates summary and detailed reports of found possible threats

CUSTOM DEVELOPMENT
- Personalized development on request
- Third party application Integration

HIGH AVAILABILITY
- Active-Passive with state synchronizations
- Stateful Failover to Keep-Alive Sessions
- Redundant heartbeat interfaces

HARDWARE
- Form factor- 1U Rack Mountable
- Memory – 8 GB
- SSD – 128 GB
- 2.5 GbE Ports – 06
- SFP - 02
- 2 USB Ports, 1 VGA/HDMI
- Dimension-(mm) -(H x W x D)- 44 x360 x 270
- Weight- 7.5 Kg

POWER AND RELIABILITY
- Power Option-Input Voltage: 100-240V AC, Optional External Redundant Power Supply
- Operating Temperature - (0°C ~ 40°C)
- Storage Temperature - (-20°C ~+70°C)
- Relative humidity - 10% ~ 90%, no condensing

COMPLIANCE
- Regulatory Compliance – UL, RoHS, CE, FCC, TEC
- Privacy and Compliance- CIPA, HIPPA

All specification and photos are subject to change without prior notice. * Optional (may charge extra for SIM module) ** Optional -Need to Purchase SMS gateway
1. Maximum throughput performance is measured under ideal test conditions using industry standard performance test tools. 2. Firewall UDP throughput performance is based on RFC 2544 guidelines. 3. All Performance values are up-to or rough guideline only and vary depending on system configuration. 3. IPS throughput (http) measured using default IPS rule set and 512KB object size. 4. VPN throughput measured using multiple tunnels with 512KB response size. 5.Testing done with multiple flows through multiple port pairs. +if all slot populated ^ Transceivers sold separately.

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