

Nuclias Cloud-Managed SD-WAN Gateway

The Nuclias Cloud SD-WAN Gateway is built for cloud managed, secure networks in organizations with multiple sites. With vast security features such as firewall, IPsec VPN connectivity, Intrusion Prevention (IDS), application control, content Filtering as well as Anti-virus, the DBG-2000 provides protection to satisfy small and medium enterprise needs. The Nuclias SD-WAN gateway makes installation and management simple, without the need for advanced technicians. Through Nuclias Cloud's user-friendly interface, IT administrators can create site-wide policies and monitor all branch sites effortlessly.

DBG-2000

- 4 x LAN 10/100/1000Base-T Ethernet ports
- 1 x RJ45 console port
- With Zero Touch Deployment, swift plug and play installation eliminates the need for onsite configuration
- Powerful yet easy to set up VPN tools give you flexibility in deployment and management
- Firewall and anti-virus to provide effective protection against intrusions from unknown back doors.
- Future-ready thanks to IPv6 Support
- Intrusion Prevention System (IPS) protects against DDoS attacks.
- Dynamic Web Content Filtering
- Application Control allows integration with over 1000 applications



Intuitive Interface



Cloud Multisite Management



End to End Encryption



Zero Touch Deployment



Automated Monitoring & Alerts



Role-Based Administration



Multilingual Support



Visualized Geolocation



99.9% Service-Level Agreement (SLA)



Unlimited Scalability



Over-the-Air Firmware Upgrades



Traffic Reporting & Analytics

Model DBG-2000

Product Image



General

Hardware Version

Interfaces 4x 10/100/1000Base-T Ethernet ports
1 x RJ45 Console port
2 x USB 3.0

Standards IEEE 802.3az Energy-Efficient Ethernet (EEE)
IEEE 802.3i/u/ab
IEEE 802.3x Flow Control

LEDs Power, Cloud, LAN 1 - LAN 4

Maximum Output Power

Functionality

Firewall Throughput 950 Mbps

3DES/AES 450 Mbps

SSL VPN 200 Mbps

Maximum Concurrent Sessions 200,000

New Sessions per second 2,000

Maximum IPsec VPN Tunnel 100

Maximum PPTP/L2TP VPN Tunnel 70

Maximum SSL VPN Tunnel 50

Maximum GRE VPN Tunnel 25

Physical

Dimensions

Weight

Power Input AC Input: 100-240 50/60Hz
DC Output: 12V/3A

Max. Power Consumption

Flash Memory 16 MB EMMC Flash

RAM 4 GB DDR4 SDRAM

Operating Temperature 0 ~ 40°C (32°F ~ 104°F)

Storage Temperature -20~70°C (-4°F ~ 158°F)

Operating Humidity 5 ~ 95% non-condensing

Storage Humidity 5 ~ 95% non-condensing

MTBF

Security

EMI/EMC

Software		
Firewall	<ul style="list-style-type: none"> • Firewall Rule: max. 600 • Application Rule: max. 600 • Web Filter: max. 400 web site • DoS/DDoS • Block TCP/UDP/ICMP/SYN Flood 	<ul style="list-style-type: none"> • Layer 3 mode: Route mode, NAT mode • Layer 2 mode: Transparent mode • Network Address Translation (NAT) • Port Address Translation (PAT) • Port Forwarding • Dynamic Port Forwarding
VPN	<ul style="list-style-type: none"> • Nuclias Quick VPN for IPsec Mesh and Hub&Spoke • IPsec Protocol: ESP, AH • Internet Key Exchange: IKEv1, IKEv2 • IPsec Mode: Tunnel mode, Transport mode • Encryption Method: DES/3DES/AES/ Twofish/Blowfish/CAST-128/NULL • Authentication Algorithm: MD5, SHA-1, SHA256, SHA512, AES-XCBC (IKEv2 only) • Perfect Forward Secrecy (DH Group): Group 1, 2, 5 • Support PPTP/L2TP/IPsec/OpenVPN/GRE VPN • Support L2TPv3 Server and Client • PPTP Server support MPPE encryption • Site to Site VPN, Remote Access VPN for IPsec 	<ul style="list-style-type: none"> • IKE mode: Main mode, Aggressive mode • Key Management: <ul style="list-style-type: none"> • Pre-share key • X.509 v3 • Manual Key • IPsec NAT Traversal (NAT-T) • Deed Peer Detection (DPD) • VPN Tunnel Keep Alive • Prevent Replay Attack • Redundant VPN Gateway • Support VPN Hub and Spoke • IPsec IKE Config Mode • DHCP over IPsec
Networking	<ul style="list-style-type: none"> • Nuclias Quick VPN for IPsec Mesh and Hub&Spoke • Internet: PPPoE, DHCP client, Static IP, PPTP, L2TP, Multiple PPPoE, Russian Dual Access, 3G/4G USB • DHCP server: max 1024 IP address • DHCP relay • DHCP reservation: 512 entry • IP/MAC binding • IEEE 802.1q VLAN: 128 VLAN • Policy-Base 802.1q VLAN 	<ul style="list-style-type: none"> • DDNS • IGMP proxy and Snooping • ALG: RTSP, SIP, H.323, SMTP, TFTP • VPN pass-through • UPNP • H.323 NAT Traversal • Jumbo Frame • IP Alias • DMZ
Routing	<ul style="list-style-type: none"> • Static Route • Dynamic Route: OSPF, RIPv1/v2 • Policy-Base Route 	
Bandwidth Management	<ul style="list-style-type: none"> • Guaranteed Bandwidth • Maximum Bandwidth • Priority-Bandwidth utilization • Policy-Base traffic shaping 	<ul style="list-style-type: none"> • Time-Scheduled traffic shaping • Dynamic Bandwidth Balancing • Inbound/Outbound traffic load balancing
High Availability	<ul style="list-style-type: none"> • WAN Failover (Interface Failover) • WAN load balancing 	<ul style="list-style-type: none"> • Route Failover • IPsec Failover
System Management	<ul style="list-style-type: none"> • Nuclias Cloud platform • Web UI Interface (basic function) • Command Line (CLI) 	<ul style="list-style-type: none"> • Secure Command Shell (SSH) • Support D-Link NTP Server
Bandwidth Management	<ul style="list-style-type: none"> • Guaranteed Bandwidth • Maximum Bandwidth • Priority-Bandwidth utilization • Policy-Base traffic shaping 	<ul style="list-style-type: none"> • Time-Scheduled traffic shaping • Dynamic Bandwidth Balancing • Inbound/Outbound traffic load balancing
User Authentication	<ul style="list-style-type: none"> • Recommended Build-in user database: 300 items • External user database: RADIUS, Microsoft AD, LDAP (LDAP supports Microsoft Active Directory 2003, Microsoft Active Directory 2008 and OpenLDAP version 2.2.26) • Captive Portal: Run-Time Web (HTTP/HTTPS) Authentication with Internal and External User Database • RADIUS Authentication Protocol: PAP, CHAP, MS-CHAPv1, MS-CHAPv2 	<ul style="list-style-type: none"> • RADIUS Accounting for External Accounting Server • User Group-Base Authentication • Support multiple authentication servers at the same time (Maximum 3 servers) • XAUTH (Extended Authentication) for IPsec authentication • SSL Certificate generator
Logging and Monitoring	<ul style="list-style-type: none"> • WAN Failover (Interface Failover) • WAN load balancing 	<ul style="list-style-type: none"> • Route Failover • IPsec Failover
IPS	<ul style="list-style-type: none"> • WAN Failover (Interface Failover) • WAN load balancing 	<ul style="list-style-type: none"> • Route Failover • IPsec Failover
Dynamic Web Content Filtering	<ul style="list-style-type: none"> • WAN Failover (Interface Failover) • WAN load balancing 	<ul style="list-style-type: none"> • Route Failover • IPsec Failover

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