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Nuclias Cloud Business Gateways

Nuclias Cloud Business Gateways provide the critical entry-point to your network. With robust feature sets, high levels of security and seamless installation with zero-touch provisioning, Nuclias Cloud Business Gateways make setting up and managing you businesses network a breeze.

The DBG-X800 is a 802.11ax 2x2 Dual Band Wireless Security Gateway providing hotspot connectivity for wireless access, whilst equipped with vast security features such as firewall, comprehensive VPN connectivity, captive portal, application control as well as web content filtering. Through Nuclias Cloud's intuitive interface, users can create authentication policies and monitor the network status with ease.

The DBG-2000 Gateway is built for cloud-managed networks in organisations with multiple sites. With enhanced VPN performance and features including firewall, intrusion prevention (IPS), application control, and content filtering, the DBG Series provides protection to satisfy small to medium enterprise needs.

DBG Series

Key Features

- **VPN** - In addition to comprehensive VPN functionalities such as IPSec VPN, PPTP & L2TP, and OpenVPN, the DBG Series also offers convenient tools to customise and configure your VPN tunneling.
- **Captive Portal** - Activate the captive portal landing page for user authentication.
- **Web Content Filtering** - Administrators can monitor and manage usage to help keep networks safe with a wide range of tools.
- **Application Control** - Enhance network security by regulating application usage and optimise network utilisation with prioritisation and policies.
- **Zero Touch Deployment** - Swift plug and play installation eliminates the need for onsite configuration.
- **Intrusion Prevention System (IPS)** - helps protect against DDoS attacks.

Intuitive Interface

Cloud Multisite Management

End to End Encryption

Zero Touch Deployment

Automated Monitoring & Alerts

Role-Based Administration

Multilingual Support

Visualised Geolocation

99.9% Service-Level Agreement (SLA)

Unlimited Scalability

Over-the-Air Firmware Upgrades

Traffic Reporting & Analytics

Nuclias Cloud - Hassle-Free Network Management

Nuclias Cloud, D-Link's complete Cloud-managed networking solution for small-to-medium-sized businesses (SMBs), is designed to help make the transition from unmanaged consumer-grade equipment to a managed professional-grade solution as easy, effortless, and worry-free as possible. By eliminating the learning curve and guaranteeing reliability, you can focus more on growing your business.

Seamless reliable connectivity is mission critical to the modern business. But with wireless devices, online transactions, Cloud applications, ransomware attacks, and other security threats all proliferating, SMBs can no longer run the risk of "winging it" with unmanaged Wi-Fi anymore. They need professional-grade Wi-Fi that ensures minimal downtime, and maximises your business potential.

The Nuclias Cloud platform can also deliver configuration settings to newly-installed or replacement network devices, enabling a Zero-Touch Deployment process that requires no IT personnel onsite. Simply plug in a device, let the configuration settings download from the Cloud, and it's operational — it's that simple.

» End-to-End Encryption
» Social Login for Wi-Fi
» Searchable Event Log and Change Log

» Auto Channel Management
» Bandwidth Optimisation
» Authentication via Captive Portal, 802.1x and RADIUS

Dual 2.5G WAN Ports

The DBG-2000 offers two 2.5Gbps WAN ports to ensure uninterrupted, high-speed Internet connectivity, eliminates bottlenecks and provide flexibility for your business network. Dual-WAN ports allows connectivity to two ISPs to provide network failover in case one port becomes inaccessible, giving you peace of mind knowing your network will still be connected, even when an outage occurs. Both WAN ports can also be configured to provide load-balancing for your network to prevent bottlenecks on your business network, ensuring your business data gets to where it needs to go without delay.

High-Performance Wi-Fi 6

In addition to four Gigabit LAN ports, the DBG-X800 also deliver lightning-fast Dual-Band Wi-Fi 6 connectivity to reliably connect your wireless applications. Wi-Fi 6 connectivity not only enables higher data rates for your business and handles more connected devices, it also enhances wireless security and improves power efficiency.

Ironclad Protection Against Cyberthreats

The DBG Series Cloud Business Gateways act as firewalls and are your first line of defense to block anything that shouldn't enter your network. But it doesn't stop there. The Intrusion Prevention System (IPS) actively shields the network from modern day threats such as DDoS attacks, brute force attacks or vulnerability exploits, as well as raising the alarm to alert administrators of network irregularities.

Quickly Deploy VPNs with Ease

Nuclias Cloud Quick VPN is an intelligent tool to help you configure complex topologies such as IPSec, site to site, or hub and spoke applications in just a few simple steps. Quick VPN features an intuitive user interface with useful tools to get your VPNs up and running in no time.

Customisable User Access with Captive Portal

The DBG Series lets your employees and guests quickly access separate user groups to enhance network security. Customise your captive portal landing page to let users access the network using local, external, and social login authentication methods.

Web Content Filtering

Regulate and monitor website access to help prevent malicious objects such as Java applets, ActiveX, and cookies. Block URLs by keyword or use dynamic web content filtering to block a list of categories. Maximise service availability and enhance network performance with the DBG Series web content filtering protection.

Visibility and Control to Optimise Network Utilisation

The DBG Series enables application control to not only identify traffic from network applications but lets you prioritise and restrict them. For example, you can allocate more bandwidth for video conferencing applications to ensure your meetings run smoothly, while blocking traffic from certain social media apps to improve employee productivity.

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Technical Specifications		DBG Series

Model	DBG-2000	DBG-X800
Product Image		

General

Hardware Version	B1	A1
Ethernet Interface	4 x 10/100/1000 Mbps LAN ports 2 x 10/100/1000/2500 Mbps WAN ports	4 x 10/100/1000 Mbps LAN ports 1 x 10/100/1000 Mbps WAN port
Wireless Interface	–	2x2 802.11ax dual-band wireless
USB Port	1 x USB 3.0 port	1 x USB 3.0 port
Console Port	1 x RJ-45 port	1 x RJ-45 port

Performance

Firewall Throughput	2.2 Gbps	900 Mbps
IPSec VPN Throughput	450 Mbps	130 Mbps
Max Concurrent Sessions	200,000	50,000

Internet Connection Type

Static/Dynamic IP	✓	✓
PPPoE/DS-Lite	✓	✓
IPoE	✓	✓

Security System

Dynamic DNS	✓	✓
NAT/Port Forwarding	✓	✓
Web Content Filtering	Static URL, Keywords, Dynamic WCF	Static URL, Keywords, Dynamic WCF
Intrusion Prevention System (IPS)	✓	✓
Authentication	Internal User Database, RADIUS	Internal User Database, RADIUS
Application Control	Well-Known Applications	Well-Known Applications
Firewall Policies	999	999

Routing

Static Route	✓	✓
Dynamic Route	✓	✓
Policy Route	✓	✓
Inter-VLAN Route	✓	✓

Networking

DHCP Server/Client	✓	✓
DHCP Relay	✓	✓
IEEE 802.11q VLAN	200	200
IP/MAC Binding	✓	✓
DHCP IP Reserve	✓	✓
IP Multicast	✓	✓
IPv6	✓	✓
WAN Failover	✓	N/A
Outbound Load Balancing	✓	N/A

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Wireless

Multiple Service Set Identifier (SSID)	N/A	16
SSID to VLAN Mapping	N/A	✓
Bridge Mode	N/A	✓
Wireless Security	N/A	WPA/WPA2/WPA3

Virtual Private Network (VPN)

IPSec Tunnels	100	50
PPTP/L2TP Tunnels	100	100
OpenVPN Tunnels	30	15
Encryption Methods	DES, 3DES, AES, Twofish, Blowfish, CAST-128	DES, 3DES, AES, Twofish, Blowfish, CAST-128
IPSec/PPTP/L2TP/ OpenVPN Server	✓	✓
IPSec NAT Traversal	✓	✓
Dead Peer Detection	✓	✓
IP Encapsulating Security Payload (ESP)	✓	✓
IP Authentication Header (AH)	✓	✓
VPN Tunnel Keep Alive	✓	✓
QuickVPN	Site to Site / Hub and Spoke	Site to Site / Hub and Spoke

Bandwidth Management (Available in Q3 2023)

Maximum Bandwidth Control	Minimum/Maximum Bandwidth Control Rate	Minimum/Maximum Bandwidth Control Rate
Priority Bandwidth Control	Low/Medium/High	Low/Medium/High

System Management

Web-Based User Interface	D-Link Nuclias Cloud management platform	D-Link Nuclias Cloud management platform

Physical & Environment

Power Supply	12V/2A	12V/2A
Max. Power Consumption	15.3 W	12.85 W
Dimensions (L x W x H)	192 x 120 x 38 mm	192 x 120 x 38 mm (excluding antennas)
Operating Temperature	0 - 40° C (32° F - 104° F)	0 - 40° C (32° F - 104° F)
Storage Temperature	-20 - 70° C (-4° F - 158° F)	-20 - 70° C (-4° F - 158° F)
Operating Humidity	10 - 90% non-condensing	10 - 90% non-condensing
MTBF	610,802 Hours	645,765 Hours
Safety	LVD, ErP, AS/NZS 62368.1	LVD, ErP, AS/NZS 62368.1
EMI/EMC	FCC, CE, VCCI, JATE, RCM	FCC, CE, IC, VCCI, JATE, TELEC, RCM

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