

# NETGEAR®

## VEVG3000

Data Sheet – Preliminary

VEVG3000



### Advanced VDSL gateway with bonding, vectoring and AC1600

The NETGEAR VEVG3000 is a dual-WAN gateway that maximizes both performance and flexibility for the operator environment utilizing multiple WAN and LAN technologies.

The VEVG3000 is capable of bonding and vectoring which can result in a significant increase in performance and can reduce far-end cross-talk noise. It also supports VDSL and LTE bonding as well as load balancing, VDSL2 with ADSL2+ fall back and DECT voice capabilities.

AC1600 simultaneous dual-band WiFi means end-users can stream larger amounts of data faster minimizing buffering and interruptions. Video, voice and data can be in use simultaneously without compromising the quality of the connection.

The VEVG3000 allows end-users to experience faster speeds, consistent and reliable connections and an easy-to-manage network from one-touch set-up, with Push 'N' Connect (WPS), to simplified troubleshooting with NETGEAR genie® application. Setting up parental controls and guest networks, checking overall system health, and having visibility to the entire connected home network are a breeze.

### The NETGEAR Difference

- VDSL2 bonding and vectoring
- GigE WAN for FTTH
- VDSL and LTE bonding
- 802.11 ac 1600 Mbps with simultaneous dual-band WiFi
- 4 GigE LAN

### Benefits

- Single device supports VDSL and FTTH applications for network upgrade, access failover or service transition
- G.vector enables noise cancellation reducing interference, improving rate and reach in the local copper network
- Simultaneous dual-band AC1600 WiFi with 3x3 802.11 ac in 5GHz and 2x2 802.11 n in 2.4GHz ensures reliable performance of voice, data, video and multiple applications over WiFi simultaneously
- VDSL and LTE load balancing, bonding and fall back
- Supports a variety of USB attached devices such as storage or a 3G dongle for wireless back up

### Whole Home System



Internet Service Provider Connection



VDSL Wireless Gateway



Desktop or Laptop Computer

### Features

- Dedicated VDSL2 and Gigabit Ethernet WAN ports
- Bonded and vectoring capable
- VDSL and LTE load balancing and fall back
- DECT voice
- FXS voice
- 4-port Gigabit Ethernet LAN
- ADSL2+ fallback
- Annex B
- TR-069 ready
- IPv6 dual-stack ready
- NETGEAR genie network management app

# NETGEAR®

## VEVG3000

VEVG3000

### Technical Specifications

#### System Requirements

- VDSL2, GigE or ADSL2+ service
- 2.4 or 5 GHz WiFi client or Ethernet cable
- Microsoft® Windows 7, Vista, XP, or other operating systems running a TCP/IP network
- Microsoft® Internet Explorer 6.0 or higher or NETGEAR genie

#### Physical Interfaces

- LAN Ports: Four 10/100/1000 Mbps autosensing MDIX, RJ-45 ports
- WAN Ports: VDSL2/ADSL2+ Annex A or B (two SKUs) and Gigabit Ethernet
- Wireless: 802.11ac (5.0 GHz), 802.11n (2.4GHz)
- USB 2.0 Host - 1 or 2 ports
- Voice Ports: Two FXS SIP Ports, one FXO Port
- DECT Port

#### Security

- Firewall: Stateful packet inspection, intrusion logging and reporting, DoS and DDoS protection
- NAT traversal (VPN pass through) for IPSec, PPTP and L2TP VPNs
- Static IP address assignment, internal DHCP server on LAN, DHCP client on WAN
- Domain filtering and parental control

#### Power

- Adapter: 12V DC, 5A; power cable localized to country of sale
- ON/OFF Power Switch

#### Environmental Specifications

- Operating temperature: 0° to 40° C
- Operating humidity: 90% maximum relative humidity, non-condensing

#### Warranty

- US: 1-year
- Rest of world: 2-year

#### Network Management

- Active WAN uplink selection and status monitor
- Advanced settings: Wireless, port forwarding, port triggering
- Firmware upgrade via Internet (HTTP)
- Scheduling tasks by time of day
- Setup: LAN, DNS, Static Routes
- Statistics
- TR069
- UPnP

#### Statistics (by LAN/WAN Port)

- Link Status
- Transmit/receive traffic in packets
- Collisions
- Up Time
- WAN Monitoring

#### NETGEAR Green Features

- EU CoC Compliance

#### Ease-of-use

- Netgear genie Setup Wizard

#### LEDs

- WPS
- WiFi
- DECT
- Power
- LAN Activity
- USB1
- USB2
- Voice (FXS1)
- Voice (FXS2)
- PSTN (FXO)
- DSL link1
- DSL link2

#### Data Link Layer

- Bridging
- PPPoA
- PPPoE (Client)

#### Network/Internet Layer

- IGMP v2/v3
- IGMP snooping
- IP (IPv4 & IPv6)
- IPSec pass through
- NAT/PAT
- PVC on ATM – one PVC for ATM, two PVCs for Annex B.
- QoS
- RIP v1, v2
- Static routing

#### WiFi

- 802.11n 2x2 2.5GHz, 802.11ac 3x3 5GHz
- Disable SSID broadcast
- Disable WiFi Radio
- MAC address access control
- Multiple SSIDs
- WEP 64/128 bit
- WMM-QoS
- WPA, WPA-PSK
- WPA2, WPA2-PSK
- WPS with pin & push button

#### VoIP Voice Features

- Caller ID
- Call hold, transfer, forwarding, return, conference, redial
- Codecs: G.711 a/u, G723.1, G.726, G729a/b, G.722, L16(PCM)
- LEC(Line Echo Canceller) : G.168
- T.38 Fax relay
- Tone Detect/Generate
- Adaptive jitter buffer, VAD, silence suppression
- NOTIFY for voice mail
- G.711 fax pass through
- Conference call with PSTN
- SIP Signaling
- Multiple SIP ID
- RFC 2833 DTMF relay
- RFC 3263 dns\_srv
- DTMF relay using SIP Info packets
- SIP pass through (for VoIP calls to/from attached IP telephony devices)
- One to 4 VoIP channels for 1 or 2 analog lines

#### Advanced Features

- CAT-IQ DECT Base Station
- Bonded VDSL
- Concurrent Dual Band
- IPTV
- 3G Dongle Support with 3G WAN failover

#### Package Contents

- VDSL2 gateway (VEVG3000 or VEVG3000B)
- Power Adapter
- Ethernet and phone cables

NETGEAR and the NETGEAR logo are trademarks and/or registered trademarks of NETGEAR, Inc. and/or its subsidiaries in the United States and/or other countries. Other brand names mentioned herein are for identification purposes only and may be trademarks of their respective holder(s). Information is subject to change without notice.