

# NETGEAR®

## Service Enablement Gateway – VEVG2660

Data Sheet – Preliminary

VEVG2660



### Combining Channel Bonding with g.vector and 802.11ac Wireless

Telco operators face a number of challenges today; chief among them is the delivery of greater network bandwidth to enable advanced revenue generating services while also driving cost out of their service delivery model.

The NETGEAR VEVG2660 addresses these challenges by delivering VDSL, channel bonding and g.vector to enable more access bandwidth to home and small business locations. With features that deliver maximum bandwidth in the WAN and LAN, these new platforms enable expanded service delivery with support for HD IPTV, IP voice, and high-availability Internet.

This OSGi capable platform further enables additional service revenue through seamless integration of third-party applications. Innovative tools such as NETGEAR genie® drive lower support costs with subscriber ease-of-use, self-help and diagnostics results, as does simultaneous dual-band WiFi capabilities.



### The NETGEAR Difference

- Dual WAN Integrated Access Device (IAD) supporting VDSL2 with channel bonding and g.vector
- GigE WAN for FTTH applications
- Optimal service enablement gateway solution with high speed WAN ports and 4-Port GigE LAN for multiple concurrent 100+Mbps streams
- Built-in NETGEAR OS enables complete gateway customization and optimization, including high bandwidth applications such as HD video and gaming benefit from WAN-LAN throughput performance
- Best in class 802.11ac WiFi with optimized simultaneous dual-band with multiple SSID support ensures best-in-class user experience for accessing and consuming media in the connected home

### Benefits

#### WAN Flexibility

- VDSL WAN supporting single pair, channel bonded and g.vector
- GigE WAN for Fiber applications and 3G and 4G LTE failover via USB modem support
- Single platform supports multiple high bandwidth access options

#### High Performance WiFi

- More services, more devices, more flexibility for content and user segmentation

#### Full Featured Voice

- FXS VoIP ports, FXO and DECT base station for a complete home and office voice solution

### Whole Home System



VDSL Internet Connection



802.11ac WiFi



Desktop, Laptop Computer, Tablet, Smartphone or DECT Phone

### Features

- VDSL2 WAN1 (single pair or channel bonded)
- GigE WAN2
- 2xGigE LAN
- 2xFXS VoIP
- 1xFXO
- DECT base station
- 802.11ac simultaneous dual-band WiFi
- NETGEAR genie® application
- OSGi-enabled applications

# NETGEAR®

## Service Enablement Gateway – VEVG2660

VEVG2660

### 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, M and Gigabit Ethernet
- Wireless: 802.11ac (2.4 GHz, 5.0 GHz)
- USB 2.0 Host - 1 or 2 ports

#### 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, 2.5A; plug is localized to country of sale
- ON/OFF Power Switch

#### Physical Specifications

- Dimensions: 195 x 114 x 62 mm with stand (7.7 x 4.5 x 2.4 in)
- Weight: .5 kg (1.1 lb)

#### 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
- TR-069: 325+ Objects
- UPnP

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

- Link Status
- Transmit/receive traffic in packets
- Collisions
- Up Time
- Poll interval between updates
- WAN Monitoring

#### LEDs

- Power
- VDSL2
- Ethernet
- Internet
- USB
- Wireless
- LAN Activity

#### Data Link Layer

- Bridging
- PPPoA
- PPPoE (Client)
- VLAN

#### Network/Internet Layer

- IGMP v2/v3
- IGMP snooping
- IP (IPv4 & IPv6)
- IPSec pass through
- NAT/PAT
- PVC on ATM – up to 8 multiple
- QoS: 802.1P, 802.1Q
- 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

#### Compliances

- CE, UL, FCC, WiFi

#### Hardware

- MTBF: >10 years at 45° C

#### Package Content

- VDSL2 gateway (VEVG2660)
- Power adapter
- Ethernet and phone cables

#### VoIP Voice Features

- Caller ID
- Call hold, transfer, forwarding, return, conference, redial
- Codecs: G.711, G.723.1, G.726, G.729a/b, G.722, 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 SIPID
- rfc2833 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