
The Pace 5168NV intelligent gateway is the optimum solution for today's service provider. It enables superior double and triple play service delivery via its flexible xDSL interfaces. The 5168NV terminates single-pair or pair-bonded ADSL2+/VDSL and automatically detects the configured profile. It can even receive a gigabit Ethernet handoff from an optical network terminal (ONT). The 5168NV allows service providers to use one SKU to serve all areas of their delivery network.

ADSL/VDSL Pair Bonding
The 5168NV residential gateway features bonded ADSL2+/VDSL2 modem technology, allowing service providers to increase rate and reach with their existing broadband infrastructure.

Gigabit Speeds
Enable Gigabit service offerings utilizing the integrated Gigabit Ethernet switch.

Superior Wireless Performance
High-powered 802.11n 2x2 MIMO wireless technology from Pace virtually eliminates wireless “cold spots” in the home. Pace intelligent gateways provide more than four times the maximum transmit power of competitive products that traditionally transmit at less than 100mW.

The Pace 5168NV gateway’s superior transmit power and receiver sensitivity, in conjunction with optimized antenna design, boosts performance compared to typical 802.11n wireless designs. Better range throughout the home means higher customer satisfaction with wireless coverage.

Integrated Voice over IP
The 5168NV provides built-in VoIP capabilities to support today’s voice needs. Additional VoIP capabilities include a full SIP ALG, and back-to-back IP user agent (proxy) to support additional ATA adapters.

Streamlined Management
Simplify both gateway and application management. The Pace 5168NV intelligent gateway can be managed through any TR-069-compliant auto-configuration server, such as industry-leading Pace Component Management System (CMS). CMS allows providers to remotely configure, manage and troubleshoot deployed gateway devices, eliminating costly truck rolls and lengthy customer care calls. Additionally, IP-based services can be managed using the Pace Services Management System (SMS). Integrated with CMS, SMS provides end-to-end lifecycle management for subscriber services on any device. As a result, there is reduction in operational expenses, shorter time-to-market for next generation services, as well as a higher customer satisfaction.

Key Features and Benefits
- Dual-core processor with hardware accelerated routing for exceptional performance
- ADSL/VDSL Pair Bonding
- Advanced Quality of Service for Managing Voice, IPTV, and Data Traffic
- Best-in-class wireless performance with Pace’s high power wireless design
- HomePNA interface for Video Distribution Throughout the Home
- Intelligent service delivery platform
- Carrier-Quality TR-069, TR-098 and TR-104 Network Management
- Professional-Grade Firewall
- Low Total Cost of Ownership

Main Interfaces
- Bonded ADSL2+/VDSL2
- Gigabit Ethernet WAN
- HomePNA 3.1 coax port
- 4 Gigabit Ethernet LAN ports
- 802.11n 2x2 MIMO Wi-Fi
- 2 FXS (VoIP) Lines
- Optional USB Host Ports
Pace 5168NV Technical Specifications

Broadband Network Interfaces
- Integrated Bonded ADSL2+/VDSL2 Modems (1 RJ-14)
- Gigabit Ethernet (1 RJ-45)
- Broadband interface auto detection feature

DSL Modem
- ADSL 1, ADSL 2, ADSL 2+
- VDSL2
- T.1.413 Issue 2, G.992.1, G.992.3, G.992.5, G.HS/G.994.1
- VDSL-DMT per G.993.2 standard
- Ethernet Bonding G.998.2
- TR-067- and TR-100-compliant
- ANSI and ETSI loops
- Annex A, L and M support
- Extended frames support
- Cabinet mode support

High Powered Wireless Functionality
- IEEE 802.11n 2x2 2.4GHz wireless access point, backwards compatible with 802.11b/g
- 10 power settings available through gateway user interface, up to 25 +/- 1dBm, for 802.11b, 802.11g, and 802.11n.
- Settings also configurable via CWMP
- WEP64, WEP128, WPA, WPA2
- Automatic channel selection with interference detection
- Multiple SSID support
- MAC-based filtering
- Wi-Fi Protected Setup (WPS)

Local Network Interfaces
- Gigabit (10/100/1000Mbps) Ethernet (4 ports RJ-45)
- Wireless 802.11b/g/n access point
- HomePNA 3.1 interface over coax, utilizing Sigma CG3210 chipset
- 1 USB 2.0 Host interface (2 option)

VolP Functionality
- Two (2) voice lines via RJ-14 port
- SIP user agent interoperability, including Alcatel-Lucent IMS
- Audio codecs: G.711 (a-law and u-law) and G.729, software upgradeable to support G.726
- Software upgradeable to support back-to-back SIP user agent (Proxy function)
- Echo Cancellation
- T.38 Fax Relay capable
- Advanced statistics gathering and reporting support

Software Tools and Diagnostics
- Zero-touch subscriber activation including Captive Portal
- Simple Web-based user interface for easy configuration and diagnostics
- Quick summary page with shortcuts to most commonly used features
- Standard and advanced DSL Diagnostics provided as TR-098 vendor extensions

Diagnostics and Management Tools
- Remote management and provisioning via SSL connection from Pace CMS or other TR-069-compliant ACS
- Supports TR-069, TR-098, and TR-104
- Integrated gateway-based diagnostics automatically intervene during error conditions, such as Missing Filter Detection, intercept subscriber Web requests, and provide self-guided resolutions
- ICMP Ping, Traceroute
- Web-based remote gateway technician view and remote management
- Multicolor indicator lights monitor the connection and assist with troubleshooting

Software Upgrade
- Secure TR-069 software updates procedure via Pace CMS

Security
- Integrated firewall includes stateful packet inspection (Layer 4) and local IP spoofing verification
- Supports stealth mode operation
- Unique signed security certificate manufactured into each gateway for TR-069 management authentication

NAT/PAT Support
- Standard NAT/PAT between LAN and WAN
- Automated NAT pass-through for LAN client-initiated VPN tunnels (IPSec, PPTP, L2TP), SIP, H.323, RTP
- Easy-to-configure NAT pass-through (pinholes) for common applications (games, servers, etc.)
- DMZ+ for automatic WAN IP assignment to a local computer
- Supports most popular ALGs: HTTP, FTP, H.323, IPSEC-IKE/ ESP, PPTP, RTP, RTSP, and SIP

Standard Hardware Features
- TR-068-compliant industrial design and LED indicators
- Vertical placement via provided stand or horizontal desktop placement
- Wall mount capable (with optional bracket)

High Powered Wireless Functionality
- 1.6 lbs (0.70 kg)
- 2-prong ungrounded non-polarized AC plug

Memory
- Up to 128MB Flash (64MB standard)
- Up to 256MB RAM (128MB standard)

Operating Environment
- Temperature: 32° to 104° F (0° to 40° C)
- Humidity: 5% to 95%, non-condensing
- Altitude: -197’ – 6,000’ MSL

For more information on the Pace 5168NV or any other Pace product please visit our website www.pace.com/americas