



## Data Sheet | DOCSIS® 3.0 Cable Gateways

# CableLabs® certified DOCSIS 3.0 Cable Gateways Dual Band 802.11n/ac HP 3x3 MIMO and MoCA® 2.0\*

The range of advanced DOCSIS 3.0 cable gateways from Pace deliver up to 24 bonded downstream channels with speeds up to 960 Mbps and up to 8 upstream channels for flexible return path configuration.

High-power 3x3 MIMO, Wi-Fi solution provides ultimate range for complete home connectivity, coverage and high speeds. Dual Band concurrent 802.11n (2.4 GHz) 450 Mbps and 802.11ac (5 GHz) 1300 Mbps.

Using the latest MoCA 2.0 (\* excluding D3003) for throughput in excess of 400 Mbps to interconnect STB clients, gaming consoles, and other MoCA devices.

Full-Band Capture technology enables powerful measurement and diagnostic utilities coupled with Pace ACS for best-in-class maintenance, support and lowest TCO.

### Summary

- DOCSIS 3.0 24x8 or 16x4
  - 1600 DMIPS VIPER™ CPU
  - 2400 DMIPS Apps CPU
- Best-in-class, High-Power, Dual Band Concurrent 802.11n/ac Wi-Fi with WPS
- MoCA 2.0 Networking (\* excluding D3003)
- World's first ENERGY STAR® 1.0 certified DOCSIS 3.0 Cable Gateway
- Up to 1 GB DDR3 RAM / 512 MB Flash
- Four Gigabit Ethernet ports with activity and link LEDs
- Dual USB 2.0 host ports
- TR-069 and SNMPv3 for provisioning and monitoring
- Powerful Spectrum Analyzer functionality with no impact to DOCSIS performance
- JDSU EdgeTrak™ test application to measure MER and under-carrier ingress (license required)
- Faster installs, self-installation utility, reduced maintenance calls
- Wi-Fi Analyzer
- Samba Server

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Model	Downstream	Upstream	MoCA
D5001 (Ultra)	24 bonded channels	8 channels	Yes
D3001 (Max)	16 bonded channels	4 channels	Yes
D3003 (Advanced)	16 bonded channels	4 channels	No



# DOCSIS® 3.0 Cable Gateways

## Technical Specifications

### RF Interfaces

WAN Interface	1 x RF Type-F Female Connector
Frequency	Upstream 5 MHz to 42 MHz Downstream 54 MHz to 1002 MHz MoCA 2.0 1125 MHz to 1650 MHz
MoCA	2.0 Standard (optional no-fit) (* excluding D3003)

### DOCSIS Cable Modem

D5001 - DOCSIS 3.0 24x8 cable modem  
D3001 - DOCSIS 3.0 16x4 cable modem  
D3003 - DOCSIS 3.0 16x4 cable modem

### System Processor/Memory

1600 DMIPS VIPER CPU  
2400 DMIPS Apps CPU  
256 MB DRAM (expandable to 1 GB)  
128 MB Flash (expandable to 512 MB)

### Interfaces (Back Panel)

2 x USB 2.0 ports  
4 x 10/100/1000 Ethernet Ports  
(with activity and link LEDs)  
AC Power Input  
Reset button (Recessed)

### Front Panel

7 LED indicators: Power, Upstream, Downstream, Online, Wi-Fi 2.4 GHz, Wi-Fi 5 GHz, MoCA (\* excluding D3003)

### Software

Discovery Protocols	Zero Configuration, UPnP
Streaming Protocols	DLNA
Diagnostic Protocols	SNMPv3
DOCSIS MIBs	UPS MIBs
Router MIBs	Wi-Fi MIBs
TR-069	

### Compliance

FCC	UL
CableLabs DOCSIS 3.0	MoCA 2.0
Wi-Fi Alliance	WPS 2.0
DLNA*	UPnP*
ENERGY STAR 1.0	RoHS
CEA Certification*	

\* Qualification pending

### eRouter

Route to Ethernet, MoCA (\* excluding D3003), WLAN  
Support DNS Server, DNS address resolution  
NAT, Dynamic NAT  
TCP/IP, UDP, TFTP, RIPv1, RIPv2, NTP, IPSec, PPTP, L2TP (L2TPv3 and L2TPv2), SSL  
Stateful Packet Inspection (Firewall: Min, Med, Max)  
Hacker Intrusion Prevention  
Port forwarding, triggering, blocking  
Transparent bridge mode available – network supplied IPs  
MAC level bridging (IEEE 802.1d)  
MAC Address Filtering  
URL Filtering  
IP Address Filtering  
DMZ  
802.1D STP, 802.1q VLAN  
QoS (destination, port, protocol, virtual interface) - 802.1p/q, Port based QoS, DiffServ  
VPN Termination/Pass-through  
ALG - SIP Pass-Through - H.323, MGCP, QuickTime, Real Audio, Real Player, MSN Messenger, Windows Messenger, AOL Instant Messenger, Yahoo Instant Messenger, Windows Media Player, Skype, HTTP, HTTPS, DHCP, DNS, IGMP, RTSP, GRE, PPTP, L2TPv3 pass-through, IPSEC tunnelling, FTP, FTPS, TFTP, ToD, ICMP  
IPv4, IPv6, DHCPv4, DHCPv6  
DSLite, Dual Stack

### Wireless LAN

802.11n + 802.11ac 3x3 MIMO Dual Band Concurrent (6 antennas), 3 spatial streams  
High Power Output (400 mW)  
Support up to 16 SSID per frequency band  
Independent configuration by SSID  
20/40/80 MHz channels  
Wi-Fi encryption: WEP-64/128, WPA-PSK, WPA2-PSK (TKIP/AES)  
WPS PIN: 8 digits randomly generated – not part of the MAC address  
QoS: WMM/ WMM U-APSD  
Optional radio configurations (future)

### User Interface

Home Network  
Guest Access  
Parental Control (Forbid domain and IP, Timed site access)  
Media Storage  
Device List  
Traffic Manager  
Wi-Fi  
Diagnostics  
WAN  
Firewall  
VPN  
Security  
IPv6  
Administrator  
MoCA (\* excluding D3003)

### Mechanical

WPS Button (Top)  
Dimensions: 9.0" x 8.3" x 2.2" ( D x H x W)  
(3.7" @ base)  
230mm x 212mm x 56mm  
(94mm @ base)  
Weight: 1.413kg (3.11lbs)

### Environmental

Operating Temperature: 0°C (32°F) ~ 40°C (104°F)  
Operating Humidity: 10% ~ 90% (Non-Condensing)  
Storage Temperature: -40°C (-40°F) ~ 70°C (158°F)  
Surge Protection: RF Input & Ethernet (RJ-45): >6kV  
Power Consumption: 40W max

### Electrical Requirements

Internal Power Supply:  
AC Input: 94-240Vac - 47/63Hz  
Detachable polarized Power Cord – US Plug  
(other country-specific power cords are available on request)

For more information on Pace products, please visit our website - [www.pace.com/americas](http://www.pace.com/americas)

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This specification is subject to change without notice