



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



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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

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