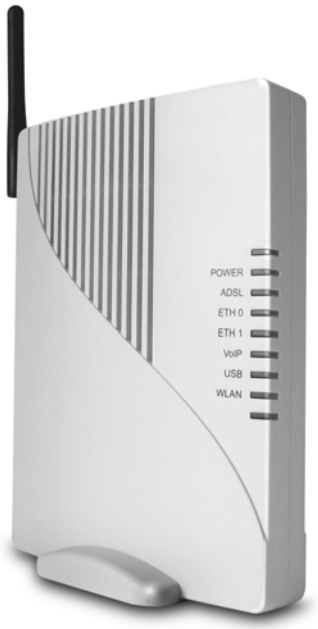
access

Discus™ DRG A223G



Combining an ADSL2+ WAN interface with a wide choice of LAN interfaces (Wi-Fi, FXS, USB and ETH) the Discus™ DRG A223G offers an integrated feature-rich platform for the distribution of your triple/quad-play services.

- **ADSL 2/2+**
- **2 Ethernet 10/100 Base-T**
- **1 FXS**
- **Wireless 802.11 b/g**
- **USB device**

The Discus™ DRG A223G is an advanced Residential Gateway that provides the most comprehensive set of interfaces and features to address the needs of bundled, triple-play and converged services.

Thanks to its advanced networking and QoS capabilities, the Discus™ DRG A223G supports a wide range of applications such as wired/wireless data, VoIP, dual-mode/fixed-mobile convergence and IPTV. DRG A223G features a high performance WiFi interface.

Discus™ DRG A223G software can be customized by Pirelli to suit your specific functional and service requirements. Plus, DRG A223G comes with a multi-language graphical user interface.

Discus™ DRG A223G fully complies with the DSL Forum TR-069 protocol which permits remote management. The DRG Gateways family can seamlessly integrate within Pirelli's technology bundle for quadruple play services, which comprises:

• Pirelli's H.264 HDTV Set Top Boxes

• Pirelli's DEX W/P Extenders for video home networking

• Pirelli's SIP GSM / WLAN Dual Mode Phones

• Pirelli's Remote Management Platform (PMP), which includes ACS capabilities for TR-069 devices.

Features subject to change - not contractually valid unless specifically authorized by Pirelli

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BROADBAND SOLUTIONS

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Discus™ DRG A223G

- **ADSL 2/2+**
- **2 Eth 10/100 Base-T**
- **1 FXS**
- **Wireless 802.11 b/g**
- **USB device**

LEDs
Power, Ethernet links, Wireless, USB link, VoIP, ADSL

Standard Package Content
N°1 DRG A223G
N°1 Power supply
N°1 Ethernet CAT5 cable with RJ-45 plug (Yellow)
N°1 Phone cable RJ-11 plug (ADSL) (Gray)
N°1 USB cable (Blue)
N°1 CD containing:
- USB driver
- User Manual
- Quick Installation Guide

Environmental Specifications
Temperature:
• Operating: 0° to 40 °C
• Non Operating: -20° to 65 °C
Relative Humidity:
• Operating: 10% to 90% non condensing
• Non Operating: 5% to 95% non condensing

Power Adapter
INPUT: 230Vac 50 Hz
OUTPUT: 15Vdc 0.8 A

Agency Approvals and Certifications
CE mark, ITU-T K21, WEEE, RoHS, Wi-Fi certification (by Wi-Fi alliance)

(*) optional, to be quoted apart

TECNICAL SPECIFICATION

WAN interface	1 Line port (RJ-11plug, inner pair) supporting the following standards: • ADSL (G.992.1, G992.2, T1.413) • ADSL2 (G.992.3) • ADSL2+ (G992.5)
LAN interface	N° 2 10/100BASE-T Ethernet ports (RJ-45 plug), compliant IEEE 802.3, with auto MDIX and auto-negotiation. Ports can be configured in order to be dedicated to video traffic to/from a STB. N° 1 USB Device v1.1
Wireless LAN interface	Wi-Fi access point solution with N°1 external antenna compliant with: • IEEE 802.11b/g • WPA/WPA2 • WEP
DSL (ATM) features	AAL5 (ITU-T I.363.5) UBR, VBR-nrt, VBR-rt, CBR traffic classes Multiple VC/PPP connections Multiple PPPoE connections on a single VC Multi-protocol encapsulation over AAL5, RFCs 2684 PPP over AAL5 (PPPoATM), RFC 2364 OAM (ITU-T I.610) – F4, F5 – Loop-back Encapsulation modes in ATM stack: LLC SNAP and VC-Mux
Routing / Bridging features	• Static routing • RIPv1, RIPv2 • DHCP Server, Relay, Client • DNS Relay • IGMP Proxy • NAT-NAPT, RFCs 3022 • Application Level Gateway (ALGs) modules • Transparent Bridging (IEEE802.1d)
QoS	• ATM QoS: UBR, VBR-nrt, VBR-rt, CBR. • 802.1P/Q prioritization • Diffserv (RFC2474, RFC2475) marking and queuing according to connection type, network interface, MAC, IP, • hostname, DSCP/ToS value, port number and application • Port based QoS
VoIP	**Codecs:** G.711 a-law/μ-law, G.729, G.726*, **Voip stacks supported:** SIP2.0, MGCP (option), H.323 (option) **Voice interface** N°1 FXS Phone port (RJ11 Plug), **Codecs Control:** • RTP/RTCP, RFC 1889 • SDP, RFC 2327 **VoIP QoS:** • Layer 3 QoS: control ToS and DSCP for VoIP RTP • Prioritization of voice over data at the network stack
Remote management	DSL Forum TR-069 CPE Management Protocol: • Auto- configuration and dynamic service provisioning • Software/firmware image management • Status and performance monitoring WEB GUI (HTTP-S web server) TFTP, RFC 1350 Telnet server
Security	Stateful Packet Inspection (SPI) Firewall IP protocol filtering, Access Control

WiFi CERTIFIED

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