PIRELLI
BROADBAND SOLUTIONS

Discus™ DRG A226G

Combining an ADSL2+ WAN interface with a wide choice of LAN interfaces (Wi-Fi, FXS, FXO, USB, and ETH) the DRG A226G offers an integrated feature-rich platform for the distribution of your triple/quad-play services.

The Discus™ DRG A226G 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 A226G supports a wide range of applications such as wired/wireless data, VoIP, dualmode/ fixed-mobile convergence, IPTV, shared storage, and printing through a USB port. DRG A226G features a high performance WiFi interface.

While based on the prevalent industry standards applicable for networking, voice protocols, and hardware interfaces, Discus™ DRG A226G software can be customized by Pirelli to suit your specific functional and service requirements.

- **ADSL 2/2+**
- **Annex A/B**
- **4 Ethernet 10/100 Base-T**
- **USB 2.0 host**
- **2 FXS ports**
- **FXO port**
- **IP QoS**
- **Wireless 802.11 b/g**

Discus™ DRG A226G 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.

PIRELLI
BROADBAND SOLUTIONS

Pirelli Broadband Solutions S.p.A
Viale Sarca, 222 - 20126 Milano – Italy
Fax: +39 02 6442 7811
broadband@pirelli.com
www.pirelli.com

Discus™
DRG A226G

LEDs
Power
Wi-Fi
Ethernet link
ADSL
Internet
VoIP
USB link

Buttons
1 x Power Button
1 x Reset Button

Power Adapter
INPUT: 230Vac 50 Hz
OUTPUT: 15Vdc 1.2 A

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

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

Physical Specifications
210 x 37 x 220 mm

Standard Package Content
DRG A226G
Power adapter
N°1 Ethernet CAT5 cable RJ-45 plug (Yellow)
N°1 USB cable (Blue)
N°1 Phone cable RJ-11 plug (ADSL) (Gray)
CD
Safety leaflet

(*): optional on request

MAIN FEATURES

WAN interface	1 ADSL Line port (RJ-11plug) supporting the following standards: ▪ ADSL (G.992.1, G992.2, T1.413, G994.1, .997.1) ▪ ADSL2 (G.992.3) ▪ ADSL2+ (G992.5) Annex A/Annex B are available in different product version
LAN interface	N° 4 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 Host v.2.0, N°1 USB Device v1.1
Wireless Interface	Wi-Fi access point with N°2 external antennas compliant with: - IEEE 802.11b/g - WPA/WPA2 (IEEE 802.11i) - WMM (IEEE 802.11e)
DSL (ATM) features	AAL5 (ITU-T I.363.5) UBR, VBR-nrt, VBR-rt, CBR traffic classes Multiple VC/PPP connections Multi-protocol encapsulation over AAL5, RFCs 2684 Up to 8 PVC Pre-emptive SAR Multiple physical queues (up to 8) per traffic class, with priority-based scheduling support* OAM (ITU-T I.610) – F4, F5 – Loop-back Encapsulation modes in ATM stack: LLC SNAP and VC-Mux
WAN Protocol Encapsulation	Bridged/Routed Ethernet over ATM (RFC 2684 / RFC 1483) PPP over Ethernet (RFC 2516) PPP over ATM (RFC 2364) IP over ATM (RFC 1577) Multiple PPPoE connections on a single VC
Routing / Bridging	RIP v1/v2 and static routing NAT/NAPT, RFCs 3022, Static NAT/NAPT DHCP Server/Client/Relay DNS relay VPN pass-through IPv4 Application Level Gateway (ALGs) modules Spanning tree protocol IP Multicasting – IGMP v2, v3 Transparent Bridging (IEEE802.1d)
QoS	Traffic shaping (ATM layer) Priority-based scheduling (up to 8* queues, max 4 per PVC) 802.1P/Q prioritization Diffserv (RFC2474, RFC2475) marking and queuing according to connection type, network interface, MAC, IP, hostname Port based QoS DSCP/TOS remarking
VoIP	**Codecs:** G.711 a-law/μ-law, G.729*, G.726*, G.723* **Voip stacks supported:** SIP2.0, MGCP (option), H.323 (option) **Voice interface:** N°2 FXS Phone port (RJ11 Plug), N°1 FXO Phone port (RJ11 Plug) **Codecs Control:** RTP/RTCP RFC 1889, SDP RFC 2327, RTP payload for DTMF digits RFC 2833 **VoIP QoS:** •Layer 3 QoS: control ToS and DSCP for VoIP RTP •Prioritization of voice over data at the network stack
Security	Programmable firewall, Stateful Packet Inspection (SPI) Firewall IP protocol filtering, Access Control, Parental control
Management	DSL Forum TR-069 CPE Management Protocol: • Auto- configuration and dynamic service provisioning • Software/firmware image management • Status and performance monitoring FTP/TFTP client for remote firmware upgrade Diagnostics and LOGs Telnet with CLI WEB server with Admin/User configuration Pages
VLAN	Supports multiple VLAN ID per ports Configurable layer-two switching

Pirelli Broadband Solutions S.p.A
Viale Sarca, 222 - 20126 Milano – Italy
Fax: +39 02 6442 7811
broadband@pirelli.com
www.pirelli.com