Discus™ DRG A225G

Combining the ADSL2+ WAN uplink with a wide choice of LAN interfaces (Wi-Fi, FXS, USB and Ethernet) Discus™ DRG A225G offers an integrated feature-rich platform for the distribution of your Triple services.

- ADSL 2/2+
- Annex A/B/M
- 4 Ethernet 10/100 Base-T
- USB 2.0 host
- 2 FXS ports
- 1 FXO port (optional)
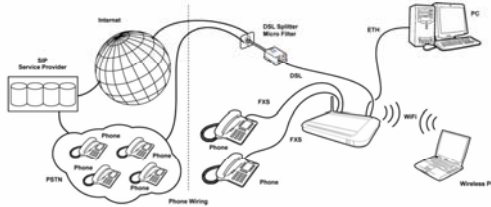- VoIP SIP 2.0
- IP QoS
- Wireless 802.11 b/g

The Discus™ DRG A225G provides the most comprehensive set of interfaces and features to address the needs of bundled, triple-play and convergent services.

Thanks to its advanced networking and QoS capabilities, Discus™ DRG A225G supports a wide range of applications such as wired/wireless data, VoIP, dual-mode fixed mobile convergence and IPTV.

Based on the prevalent Networking industry standards, Discus™ DRG A225G software stack can be customized by Pirelli to be compliant with your specific Service Model and specific functional requirements.

Discus™ DRG A225G supports the DSL Forum TR-069 protocol which permits remote management. In addition, this device is fully interoperable with the Pirelli Management Platform (PMP), a remote management system that enables auto-provisioning and secure firmware upgrades.

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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 Ethernet WAN option
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
Wireless Interface	Wi-Fi access point 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 Hardware 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) – option. **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

LEDs
Power
Wi-Fi
Ethernet links
ADSL
Internet
Phones
VoIP
USB
WPS

Buttons
1 x Power Button
1 x Reset Button

Power Adapter
INPUT: 100-240Vac 0.5A 50/60Hz
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 A225G
Power adapter
N°1 Ethernet CAT5 cable RJ-45 plug
N°1 USB cable
N°1 Phone cable RJ-11 plug (ADSL)
CD
Safety leaflet

(*): optional on request

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