

# Discus<sup>TM</sup> Multiplay Access Gateways



With the option of ADSL, VDSL2, FTTH, or Ethernet WAN interfaces and a wide choice of LAN interfaces (Wi-Fi, FXS, FXO, USB, DECT and ETH), the Discus<sup>TM</sup> Multiplay family of access gateways offers an integrated, feature-rich platform for the distribution of your triple-play services.

The Discus<sup>TM</sup> Multiplay Access Gateway family provides the most comprehensive choice of interfaces and features to address the needs of bundled, triple-play and converged services.

Thanks to its advanced networking and QoS capabilities, Discus<sup>TM</sup> Multiplay supports a wide range of applications such as Wi-Fi data and VoIP, IPTV, VoIP with analog and DECT phones, shared storage and printing through a USB port, Video Telephony, and dual-mode fixed/mobile telephony.

- **ADSL2+ /VDSL2 /Fiber / Ethernet WAN**
- **Ethernet**
- **USB host/device**
- **VoIP**
- **Wi-Fi 802.11 b/g**
- **DECT**

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

Discus<sup>TM</sup> Multiplay family 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 remotely managed system that enables auto-provisioning and secure firmware upgrades.

# Discus™ Multiplay Access Gateways

- ADSL 2/2+ / VDSL2
- Ethernet
- USB host/device
- VoIP
- Wi-Fi 802.11 b/g



The casing colours and branding can be customized according to your specific service profile.

\*The Multiplay family of Access Gateways offers several product variants that can be configured according to your requirements:

- ADSL2+, VDSL2, Fiber, or ETH WAN interface
- with or without wireless interface
- with or without FXO port
- USB Host 1.1 or 2.0
- with or without DECT
- other features on request:
  - Parental Control
  - Content Filtering
  - Smart Card Reader

## TECHNICAL SPECIFICATIONS (full feature model)\*

<b>VoIP</b>	
<b>Protocols</b>	SIP, MGCP (H.323 upon request)
<b>Codec</b>	G.711 alaw/ulaw G.729A, G.723.1, G.726
<b>FXO</b>	switchover with FXS
<b>DECT</b>	GAP Standard

### Management and Configuration

<b>Web</b>	Web server (https)
<b>Remote Management</b>	TR-069

### Physical Specifications

<b>Ports/Button</b>	ADSL: 1 x RJ-11 connector for phone line. Ethernet: 4 x RJ-45 connector (IEEE 802.3 10/100 Base T, Auto MDI/MDIX) VoIP: 2 x RJ-11 connector (FXS) + 1 x RJ-11 connector (FXO) Wi-Fi: access USB: 1 host 2.0 and 1 device 1.1 Power: 1 jack for power supply Reset to factory On/off button
<b>LEDs</b>	Power ADSL link 4 Eth LEDs Link/activity USB activity WLAN activity 2 FXS and 1 FXO ports

### Electrical, Mechanical and Environmental

<b>Electrical</b>	External power supply Nominal voltage 110-230V
<b>Temperature</b>	Operating: 0° C to +40° C Storage: -20° C to +65° C
<b>Humidity</b>	Operating: 10-85% non-condensing Storage: 5-95% non-condensing

### Wi-Fi 802.11b/g

Standards and protocols	IEEE 802.11b/g
Number of Channel	13
Data Rate	1, 2 Mbps (IEEE 802.11) 5.5, 11 Mbps (IEEE 802.11b) 6, 9, 12, 18, 24, 36, 48, 54 Mbps (IEEE 802.11g)
Antenna	2 external
Security	WEP / WEP2 / WPA / WPA2
QoS	WMM

### ADSL and ATM WAN Interfaces

G.992.1/G.992.2/G.992.3/G.992.4/  
G.992.5 (Annex A, B), ETSI TS  
101 388 v1.3.1

Supports multimode functionality  
DMT modulation and demodulation

Supports up to 8 virtual channels

UBR/CBR/UBR+/VBR -rt/-nrt

Supports Dying Gasp

ATM forum UNI 3.1, UNI 4.0

ITU-T I.361 Recommendation

ATM AAL5/SAR (Segmentation and Reassembly)

OAM F4/F5 RDI, AIS and loopback

Bridge/Router Ethernet over ATM (RFC 2684)

RFC 2364 PPPoATM

RFC 2516 PPPoE (Up to 4 PPPoE sessions on the same PVC)

IP over ATM (RFC 1577)

Security: user authentication for PPP: PAP and CHAP

### Networking

RIPv1, RIPv2 support,  
static Routing

IPv4 and IPv6

IP NAT 1:1 (RFC 3022, RFC 2663, RFC 3027, RFC 2993)

NAPT (RFC 3022)

ALGs

Public LAN handling

Virtual Server

IGMP

Packet Filtering Firewall (statefull)

Parental Control

### Agency Approval

CE class B

USB compliance

Wi-Fi certification (By Wi-Fi Alliance)



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