

P.DG A2100N

ADSL2+ Wireless 11n Data Gateway



Compact and stylish, P.DG A2100N makes the user enjoy of powerful Wi-Fi access gateway. Through the integrated 802.11n Wireless Access Point, P.DG A2100N offers extremely high throughput, coverage and signal robustness.

- **ADSL 2/2+**
- **Annex A/B options**
- **2 Ethernet 10/100 Base-T/TX**
- **Wi-Fi IEEE 802.11n 1x1 @ 2.4GHz**
- **IP QoS**

P.DG A2100N is an stylish and compact Data Gateway featuring two ETH ports 10/100 Base-TX with a simultaneous operation of a Wireless LAN 802.11b/g/n.

Thanks to its advanced networking and QoS capabilities, the P.DG A2100N supports a wide range of applications such as wired/wireless data and IPTV. Through the IEEE 802.11n technology, P.DG A2100N extends wireless home network speed and coverage.

While based on the prevalent industry standards applicable for networking and hardware interfaces, P.DG A2100N software can be customized by ADB to fit user specific functional and service requirements.

P.DG A2100N fully complies with the Broadband Forum TR-069 protocol which permits Remote Management. The P.DG Gateways family can seamlessly integrate within ADB's technological environment, which comprises:

- ADB's HDTV Set Top Boxes
- ADB's P.EX W/P Extenders for video home networking
- ADB's Remote Management Platform (PMP), which includes ACS capabilities for TR-069 devices.

By using best-in-class and highly field-proven ADSL2+ chipset platform, P.DG A2100N brings to the Telco the value of highest Interoperability with Central Office equipment, resulting in fast service introduction.



P.DG A2100N



MAIN FEATURES

| | |
|-----------------------------------|---|
| WAN interface | 1 ADSL Line port (RJ-11plug) supporting the following standards: <ul style="list-style-type: none"> ADSL (G.992.1, G992.2, T1.413, G994.1, .997.1) ADSL2 (G.992.3) ADSL2+ (G992.5) |
| LAN interface | N° 2 10/100BASE-T/TX 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 |
| Wireless Interface | Wi-Fi access point solution is compliant with: <ul style="list-style-type: none"> IEEE 802.11n (2.4 GHz), 1x1 spatial multiplexing WPA/WPA2 (IEEE 802.11i) WMM (IEEE 802.11e) N°1 external antenna WPS Push Button |
| 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) <ul style="list-style-type: none"> 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 | IPv4 RIP v1/v2 and static routing NAT/NAPT, RFCs 3022, Static NAT/NAPT DHCP Server/Client/Relay DNS relay VPN pass-through Application Level Gateway (ALGs) modules Spanning tree protocol IP Multicasting – IGMP v1, v2, v3 Transparent Bridging (IEEE802.1d) |
| QoS | IP 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 |
| Security | Programmable firewall, Stateful Packet Inspection (SPI) Firewall IP protocol filtering, Access Control, Parental control |
| Management | Broadband Forum TR-069 CPE Management Protocol: <ul style="list-style-type: none"> 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 |

(*): optional on request

LEDs

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|-------------|
| Power |
| ADSL |
| LAN1 - LAN2 |
| WiFi |

Buttons

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|------------------|
| 1 x Power Button |
| 1 x Reset Button |
| 1 x WLAN |

Power Adapter

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|-----------------------------|
| INPUT: 100-240Vac, 50-60 Hz |
| OUTPUT: 12Vdc 0,5 A |

Environmental Specifications

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|---|
| 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 |

Physical Specifications

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|----------------------------|
| Dimension: 120 x 35 x 80mm |
| Weight: 200gr |

Agency Approvals and Certifications

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|---|
| CE mark |
| ITU-T K21* |
| Wi-Fi certification (by Wi-Fi alliance) |
| RoHS |
| WEEE |
| EuP |

Standard Package Content

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|---|
| P.DG A2100N |
| Power adapter |
| N°1 Ethernet CAT5 cable RJ-45 plug (Yellow) |
| N°1 Phone cable RJ-11 plug (ADSL) (Gray) |
| CD |
| Safety leaflet |