

High-performance IP DSLAM for triple-play services

Key benefits:

- Provides triple-play services, incl. IPTV over an ADSL2+ infrastructure
- Allows wholesale at service level
- Cost-effectively controlled and provisioned through BECS™ and ASR
- Together with BECS, it provides a cost efficient alternative to BRAS systems



The IPD 1200 supports leading edge DSL technology – ADSL2+ – providing 29Mbit/s downstream to the end user and 3Mbit/s upstream. Furthermore, ADSL2+ is less sensitive to disturbances and has a greater reach without compromising bandwidth. Integrated with the BECS control and provisioning system, the IPD 1200 supports ADSL2+ over the already proven and cost-effective broadband architecture for advanced triple-play services.

One system - independent of access technology

PacketFront's ADSL2+ portfolio is built with the same architecture as its FTTx solution, providing open access at service level. This, in turn, gives operators maximum flexibility in their choice of business model. Via the use of BECS, ADSL networks have the same unique functionality as the rest of PacketFront's solutions. It is therefore possible to use one single system for the entire network, independent of access technology (e.g. IP over fiber, Cat5 or ADSL).

Triple-play services

The IPD 1200 supports triple-play services, including TV over IP and Video on Demand. It also enables different service combinations per ADSL line.

Reducing OPEX

Thanks to the integration with BECS and the ASR series of advanced services routers, the IPD 1200 offers automated configuration and deployment, as well as the on-demand self provisioning of services. The IPD 1200 scales from 48 to 4000 users in one single unit of 19" rack space. In combination with BECS and the ASR, the IPD 1200 offers a unique open-access network architecture for ADSL2+, with the wholesale of separate services and not just the access connection.

The IPD 1200 series also supports VCI/VPI auto-detection, making end-user support less painful, as it is likely that their off-the-shelf modem will work without a need for configuration. These features minimize investments and operational costs, and offer maximum flexibility in creating differentiated services.

All IP and no BRAS

When it comes to large, traditional ADSL deployments, the operational costs for traditional BRAS systems are a major problem for profitability. PacketFront's ADSL2+ solution, including the IPD 1200, removes the need for a BRAS to terminate the PPP connections. Instead, the BECS system deliv-

ers all the necessary functions without the use of limiting PPP technology. The innovative BECS technology is easily applied to handle the tasks of traditional PPP-based BRASes. Functions such as authentication and authorization of end users, service delivery, billing records, traceability and security are all handled by BECS – without the need for complex and costly BRAS deployments. The access transparency of the PacketFront solution enables network owners to add new access methods and reach new end-users – without the need for additional provisioning and service-delivery systems.

Interfaces

IPD 1248 2 x IEEE 802.3 100/1000BaseT Ethernet interfaces with different uplink mode alternatives
48 ADSL2+ lines (2 x Telco-50 pin Centronic connector for 24-line ADSL each)

Security

Management in dedicated IEEE 802.1 Q V-LAN and access filters
Overheating protection with fan control and supervision

ADSL line rate

Downstream Up to 29Mbit/s
Upstream Up to 3Mbit/s

Management

Configurable PVC, VPI/VCI and VID per ADSL line
Modem VC auto detection
Configuration and management via PacketFront ASR and BECS

Protocols and standards

G.992.1 Annex A & B
G.992.3 Annex A, B & L
G.992.5 Annex A, B & M
G.994.1 auto sensing
NITRO mode (up to 29 Mbit/s downstream)
Annex L (long reach)
Annex M (extended upstream capacity)
K.20 over voltage and over current protection
IPv4, TCP, UDP, TFTP, ICMP
IGMPv2 snooping

Physical

Dimensions 43mm (H) x 241mm (D) x 430mm (W), 1.69" (H) 9.48" (D) 16.92" (W)
Weight 4 kg, 8.8 lbs
Mounting In ETSI 300 119 300mm rack "back-to-back".

Power

Power requirement -48 to -60V DC or optional PSU: 90-240V AC, 50-60Hz
Power consumption max 85 Watts

Environmental

Operating temperature 0 to 40°C, 32 to 104°F
Storage temperature 0 to 70°C, 32 to 158°F
Humidity 0-90% RH non condensation for operation and storage
Heat dissipation max 85 Watts

Regulatory compliance

73/23/EEC
89/336/EEC
EN 300 386 V1.3.2
EN 55022:1998 + A1:2000, Class B
EN 61000-3-2:1995 + A1:1998 + A2:1998
EN 61000-3-3:1995
EN 55024:1998
EN 300 132-2 V2.1.2 part 2
EN 300 019-2-3 Class T 3.1