



# EaglePLUS™ ADSL2/2+ CPE Data Pump

## Key Features

- ATM and PCM Interfaces
- Two Bearer Channels and Two Latency Paths
- Hardware for Decoupling of PMD and PMS Layers
- Arbitrary Rational Multiframe Code Word Parameter Sp Down to 1/3
- 256 or 512 Tones in the Downstream Direction
- 1-Bit Constellations with Trellis-Coded Modulation
- Reduced-Overhead Framing
- Non-Integer Number-of-Bytes-per-DMT Symbol
- All Required and Optional Online Reconfiguration (OLR) Modes including Seamless Rate Adaptation
- All Specified Low-Power Modes (L0, L2, and L3)
- Configurable for ADSL Bonding applications (referece to New Bonding Draft Standard T1E1.4/2003-334R2)



## Overview

The EaglePlus™ ADSL2/2+ data pump represents the first commercially available standards compliant ADSL2/2+ chipset on the market. Supporting unsurpassed interoperability with the leading DSLAM vendors, the EaglePLUS represents maturity in the guise of a new product.

ADSL2+ offers the realization of service rates up to 24Mbps to the home or office, well beyond even the traditional T1/E1 service rates connecting many business units today.

The EaglePlus (AD6487) solution is a complete ADSL/ADSL2/ADSL2+ digital integrated circuit, which includes a DSP processor and accelerator cores optimized for cost and power:

- DSP processor for training and management functions
- Management Equity Interface (MEI) for management- and code-swapping
- ATM data accessible via UTOPIA-2 PHY or direct access to ATM cell buffers via MEI
- Serial data interface via PCM highway
- DSP debug access via either MEI or JTAG interfaces

The EaglePLUS provides standards compliant (ITU G.992.3, G.992.4, G.992.5 ADSL2 and ADSL2+ - Annexes A, B, C, I, J, and L Modes of Operation) functionality and performance and enables immediate connectivity. Fully backward compatible to ITU G.992.1 and G.992.2 (Annexes A, B, and C Modes of Operation) the EaglePLUS supports legacy ADSL deployments supporting ADSL2/2+ Automode operation.



[www.analog.com/processors](http://www.analog.com/processors)

**Performance**

High Performance and reliable interoperability go hand in hand when describing ADSL services - you cannot have one without the other. The EaglePLUS combines exemplary performance with fully supported interoperability with the leading CO DSLAM's available in the field. The true value of an ADSL2/2+ system is its backward compatibility to legacy ADSL deployments. The EaglePLUS provides these guarantees of transparency to legacy equipment whilst simultaneously offering unparalleled performance on the new ADSL2/2+ standard.

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ADSL/ADSL2/RE-ADSL2/ADSL2+ Performance Chart

