

# Accelity™ DA87781

## VDSL2 Chipset for Customer Premises Equipment

### Target Markets

- Customer premises equipment

### Applications

- Modems
- Gateways
- ONTs
- VoIP TAs

### Features

- Compliant with ITU-T VDSL2/G.993.2, VDSL/G.993.1 ITU-T, ANSI T1-424, ETSI TS 101 270, and China MII VDSL standards
- Long-reach support US0 Band
- Fully integrated ATM/PTM support
- DSP integrates interleave memory required by high speed video applications
- AFE integration of Tx and Rx filters
- Programmable transmit power levels and PSD masks

### Development Tools/ Software

- Complete reference designs
- Software features including security, ease of use, configuration and ATM and IP support



Ikanos' Accelity™ DA87781 customer premises equipment (CPE) chipset offers full-rate, very high speed DSL (VDSL) and VDSL2 performance for asynchronous transfer mode (ATM) and packet-based client-side terminals.

Accelity DA87781 VDSL2 chipset provides advantages in performance, functionality, and cost, and is targeted at Ethernet bridges/routers, wireless local area network (WLAN) and broadband residential gateways, and integrated access devices (IADs). The Accelity CPE chipset is fully programmable, high-performance solution for triple-play broadband service.

The chipset includes a VDSL digital signal processor (DSP) and an analog front end (AFE) chip. The DSP integrates an Ethernet media access control (MAC) with media-independent interface (MII) for LAN connectivity. The Accelity CPE design capitalizes on Ikanos' many years of successful real-world DSL field experience and comprehensive understanding of standards-based xDSL technology. To accelerate time-to-market, complete reference designs are available

## Key Features

- Transceiver consisting of a 160-pin plastic ball grid array (PBGA) DSP/Framer and 28-pin thin shrink small outline package (TSSOP) analog front end/line driver (AFE/LD)
- 1.8 cm<sup>2</sup> per port density for chipset
- Optimal performance vs. power design
- Compliant with G.991.2
- Extended embedded operations channel (EOC) management

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