

Product Brief ADSL

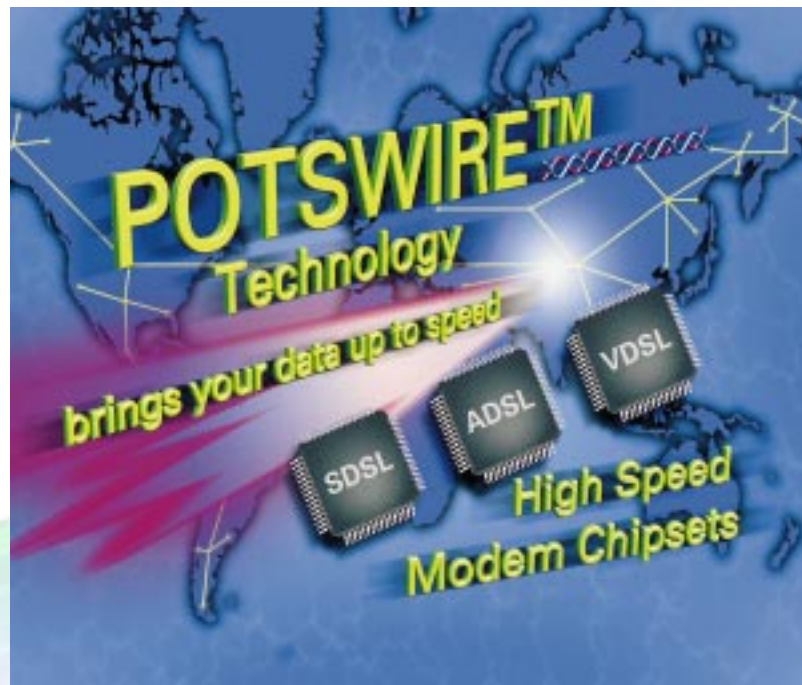
PEB 22710 (ADSL-L)

PEB 22711 (ADSL-AC)

PEB 22712 (ADSL-D)

PEB 22713 (ADSL-AR)

Asymmetric Digital Subscriber Line
Chipset



ADSL (Asymmetric Digital Subscriber Line) is the future technology for high speed Internet access. The Siemens POTSWIRE™ ADSL chipset is a full-featured three chip solution for high speed ADSL modems.

It consists of the digital data pump PEB 22712, optimized analog frontends for the remote transmission unit (PEB 22713) and the central office unit (PEB 22711), and the line driver IC PEB 22710.

ADSL

Potential Applications

- High speed Internet access
- High speed LAN access
- Video on demand
- Video conferencing

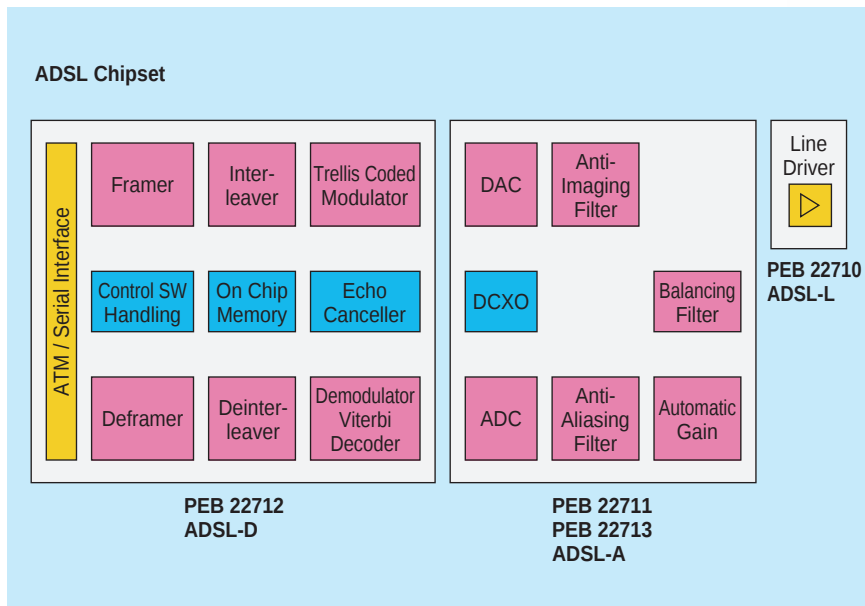
Features

- Fully compliant to ANSI T1.413 Issue 2 standard
 - DMT framing
 - Reed Solomon forward error correction
 - Interleaving memory on chip (64 symbols interleaving depth)
 - Trellis coding
 - DMT modulation
- Echo cancellation
- High data rates
 - up to 8 Mbit/s downstream
 - up to 640 kbit/s upstream

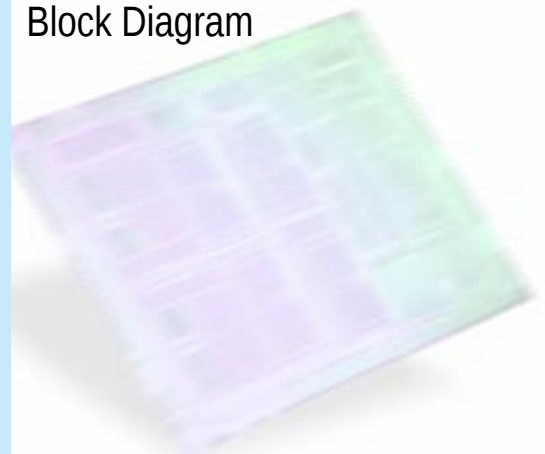
- Rate adaption at start up
 - 32 kbit/s increments
- Advanced operating modes
 - ADSL lite
 - ADSL over ISDN
 - double upstream
- Power management
 - power down mode
 - minimum power mode
- Low power consumption < 3 W
- Integrated ATM interface
 - UTOPIA level 2
 - ATM TC layer
- Software upgrade by download
- Optimized solutions for CO and RT
- Integrated adaptive hybrid
- Modem timing recovery (built-in DCXO)
- On chip control software handling

Packing

Type	Ordering Code	Package	Availability
ADSL-L PEB 22710	Q67231-H1058	P-DSO-20-5	now
ADSL-AC PEB 22711	Q67233-H1059	P-MQFP-44	now
ADSL-D PEB 22712	Q67233-H1084	P-TQFP-144	Q2/99
ADSL-AR PEB 22713	Q67233-H1061	P-MQFP-44	now



ADSL Chipset Block Diagram



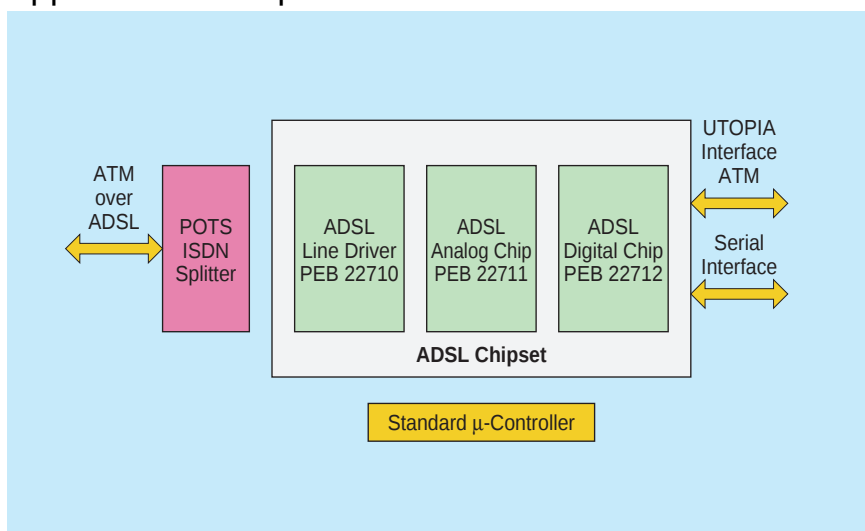
Development and Support Tools

- Evaluation Board Chipset
- Evaluation Board ADSL-A + ADSL-L
- Evaluation Board ADSL-L

Documentation

	Date of Issue/Version
ADSL Chipset Product Overview	04.98 Preliminary / 1.0
ADSL-D Data Sheet	10.98 Preliminary / 1.0
ADSL-AC Data Sheet	09.98 Preliminary / 1.0
ADSL-AR Data Sheet	09.98 Preliminary / 1.0
ADSL-L Data Sheet	04.98 Preliminary / 1.0

Application Example: ADSL Modem



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