



CENTAUR.USB

ATM/ADSL USB Modem
Reference Design Board

FEATURE LIST⁰

PRELIMINARY DATA

- ◆ ANSI T1.413 ISSUE 2 COMPLIANT
- ◆ SOFTWARE UPDATEABLE TO G.LITE
- ◆ USB/ETHERNET INTERFACE
- ◆ PERFORMANCE MONITORING SOFTWARE AVAILABLE
- ◆ SUPPORT FOR PPP OVER ATM, RFC 1483 OVER ATM
- ◆ WINDOWS 98/2000 COMPATIBLE DRIVER
- ◆ PLUG-AND-PLAY INSTALLATION

DESCRIPTION

CENTAUR.USB is a Plug-n-Play (tm) compatible modem which connects to a PC or laptop through a USB/Ethernet port, and to the DSL service provider through a standard ADSL line.

The CENTAUR.USB sends and receives ATM cells over copper phone lines using standards-based Discrete Multi-Tone (DMT) ADSL transmission, and integrates the TOSCA DMT ADSL chipset as its core signal processing engine. The CENTAUR.USB offers data rates of up to 8 Mbps downstream and 992 Kbps upstream, though actual throughput depends on the length and wire gauge of the local phone line. The CENTAUR.USB driver supports Windows 98/Windows 2000 operating systems.

The purpose of the performance monitoring software is to monitor various performance parameters of ADSL modem, analyze the performance based on the reference and previous values, enables the user to edit modem profile and to perform modem testing (by enabling, disabling, line test etc.). One part of the software executes on the PC as a dialog based Graphical User Interface (GUI). The complementary part of the software executes on the modem and communicates with the GUI over the USB/Ethernet interface.

A complete reference design package is available on CD-ROM. This includes hardware documentation (Schematics, BoM, Board Layout) and software (drivers and GUI). The CENTAUR.USB supports UNI 3.0/3.1/4.0, ILMI, RFC 1483 (Bridged and routed Ethernet over ATM), RFC 1577 (Classical IP over ATM), RFC 2364 (PPP over ATM), SNMP, DHCP, NAT and PPP tunneling (PPTP and L2TP). It supports 64 VCIs concurrently from a range of 1-1024, using AAL5 and UBR. CENTAUR.USB is powered from +3.3V and +/- 12V supplies. The TOSCA chipset operates over the industrial temperature range (-40 to +85 C) and the remaining components are available over industrial temperature versions.

⁰ This is advance information on a new product now in development or undergoing evaluation. Details are subject to change without notice.

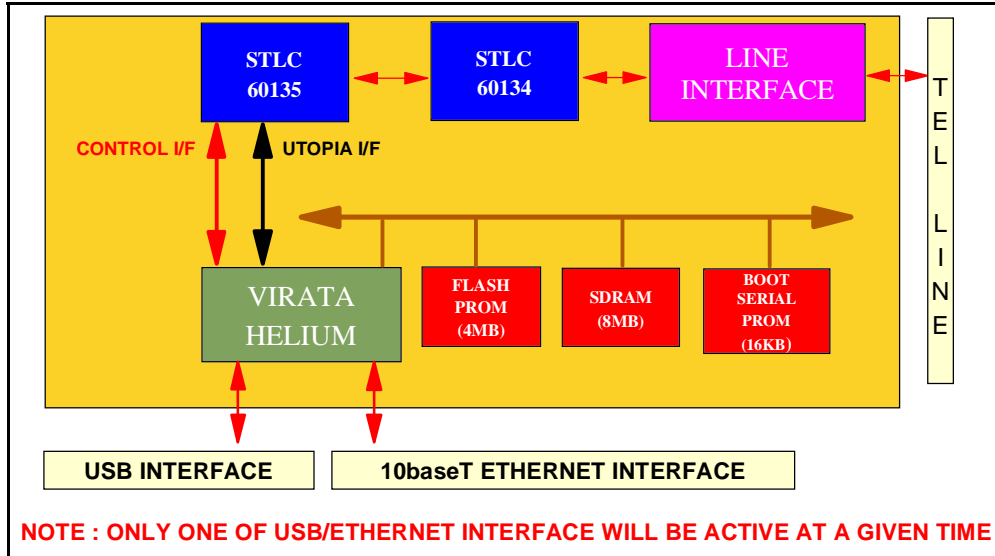


Fig-1 : CENTAUR.USB Block Diagram

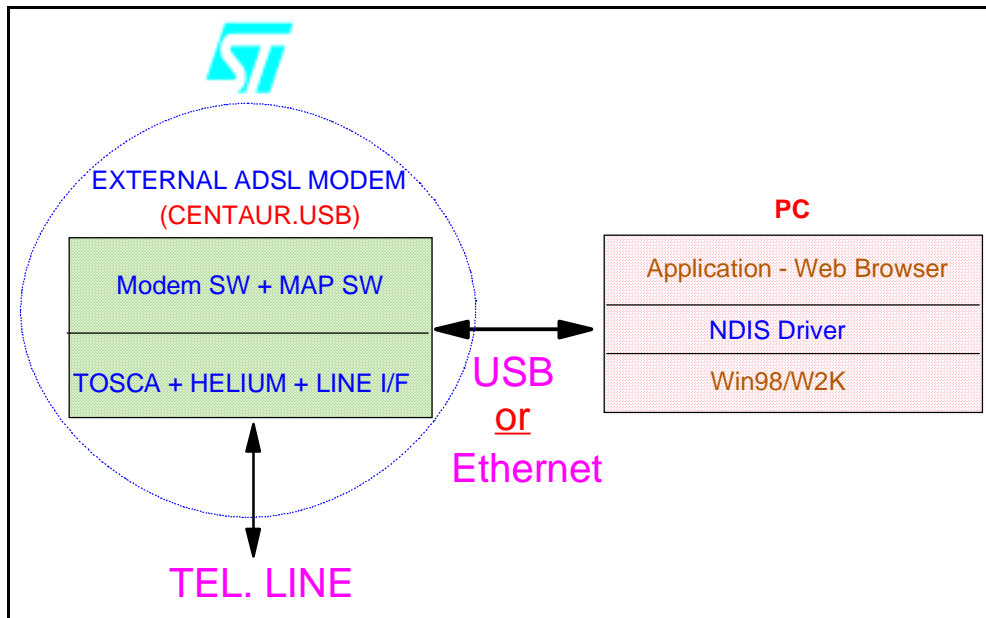


Fig-2 : CENTAUR.USB Scenario

The board size is 5 ¾ x 7 7/8 x ¾ inches.

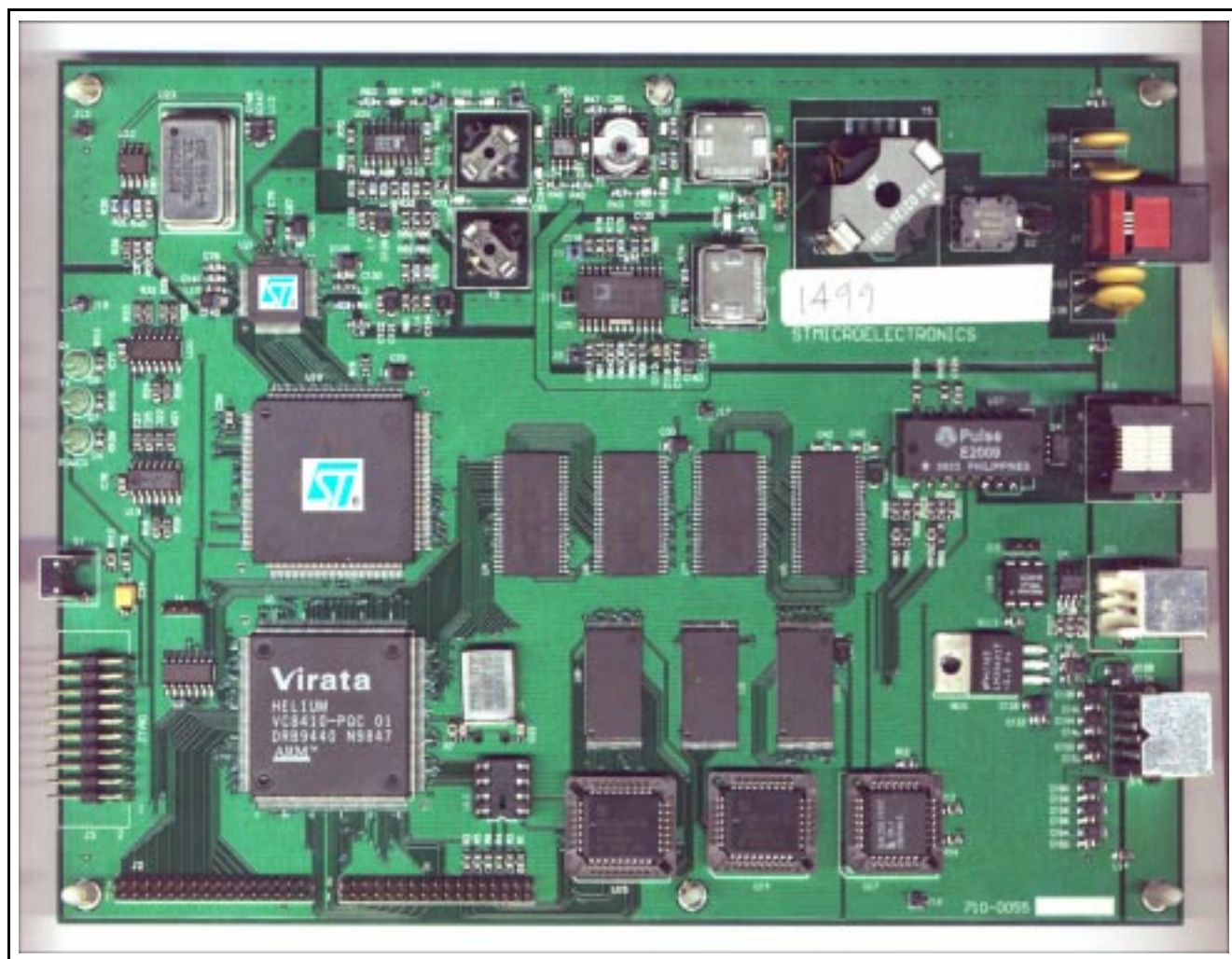


Fig-3: Picture of CENTAUR.USB

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