



## SPECIFICATIONS

MDC1.5 Form Factor AC97/Azalia Modem Card

MA560-6

Ver. 2A

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**Approved by :**

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## 1. Description of MDC Form Factor AC97/Azalia Modem Card

MA560-6 is an internal software modem card of the smallest MDC1.5 form factor. The modem design is based AC97/Azalia Interface software based modem. The card is conform to Lead (Pb) -free device. The functions of the modem include data, fax.

The MA560-6 modem device set consists of a Agere SV92A3 Host Side Device (HSD) in a 16-pin TSSOP and a CSP1040 DAA Line Side Device (LSD) in a 20-pin TSSOP.

Its mechanical dimension is 35.0mm X 27.0mm with 2 pin header. Use Azalia 12PIN connector. Reduce more area occupied by modem in system.

### Block diagram

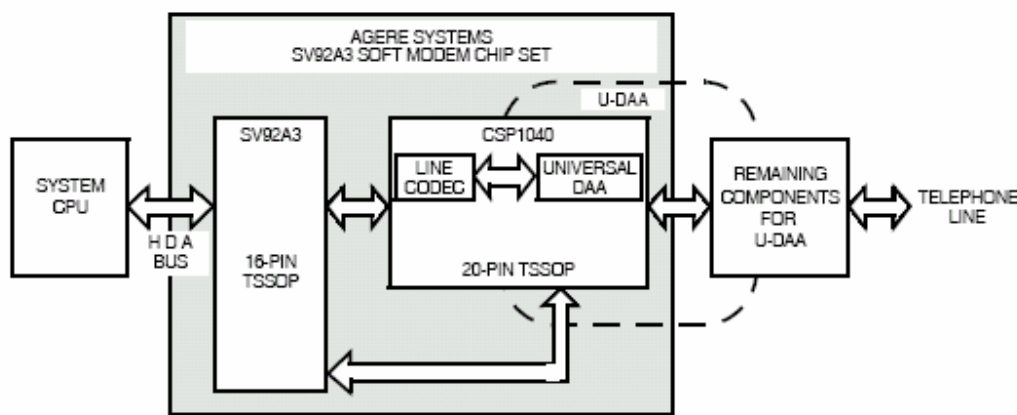


Figure 1. Functional Block Diagram

## 2. Country Support

The DAA of the modem is designed to comply with the regulation of the following countries:

- America: US, Canada
- Asia: Japan, Singapore, Australia, New Zealand, Taiwan
- Europe: CTR21 (18 European Countries)  
Australia, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and UK

### 3. Features

- Data mode capabilities:
  - ITU-T V.92: 56000 bits/s – 28000 bits/s
  - ITU-T V.90: 56000 bits/s – 28000 bits/s
  - ITU-T V.34: 33600 bits/s – 24000 bits/s
  - V.32bis and fallbacks
  - V.44, V.42, V.42 bis, and MNP™ Class 5 data compression.
  - High compression throughput due to parallel access directly to the host PC
- Fax mode capacities
  - ITU-T T.31 class 1 FAX
  - ITU-T V.17: 14400 bits/s, 12000 bits/s, 9600 bits/s, 7200 bits/s (TCM)
  - ITU-T V.29: 9600 bits/s, 7200 bits/s (QAM)
  - ITU-T V.27ter: 4800 bits/s, 2400 bits/s (DPSK)
  - ITU-U V.21 Channel 2: 300 bit/s (FSK)
- AC 97 bus interface:
  - AC'97 specification 2.3 compliant
- HD Audio bus interface:
  - AC'97 specification 2.3 compliant

### 4. Operating System Support

Windows 2000  
Windows XP

### 5. Environment Operating Range

Operating temperature: 0-70 degrees Celsius  
 Humidity: 10-90%, noncondensing

### 6. Power requirements

Operating Voltage: +3.3V +/- 5% @ 35 mA max

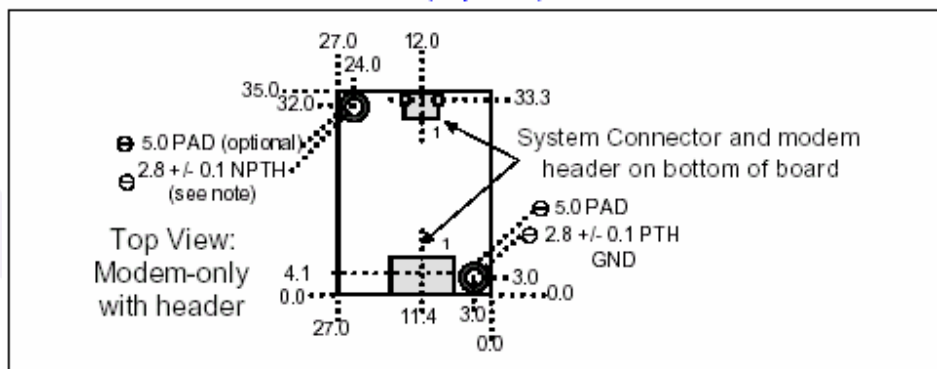
### 7. Power Dissipation

The typical approximated power dissipation is as below:

Power Dissipation for	Modem Card
Active (typical)	99 mW
Sleep mode	6 mW

### 8. MDC 1.5 Dimensions

**Mechanical Dimensions for MDC 1.5 (Top View)**



## 9. Pin Definition

### Pin out for MDC 1.5

Pin No.	Definition	Definition	Pin No.
1	GND	RESERVED	2
3	Azalia_SDO	RESERVED	4
5	GND	3.3 Vmain/aux	6
7	Azalia_SYNC	GND	8
9	Azalia_SDI	GND	10
11	Azalia_RST#	Azalia_BCLK	12