



## SPECIFICATIONS

### **MDC1.5 Form Factor V.92 Dual Mode Modem Card**

**Qcom:: MA560-7 (PB-Free)  
Agere SV92A3**

**Agere: Delphi D40 Modem  
AM5**

**Ver: 1A  
Date: 06/22/2007**

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**Approved by:**

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

The **MA560-7** 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 **MA560-7** modem device set consists of an 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

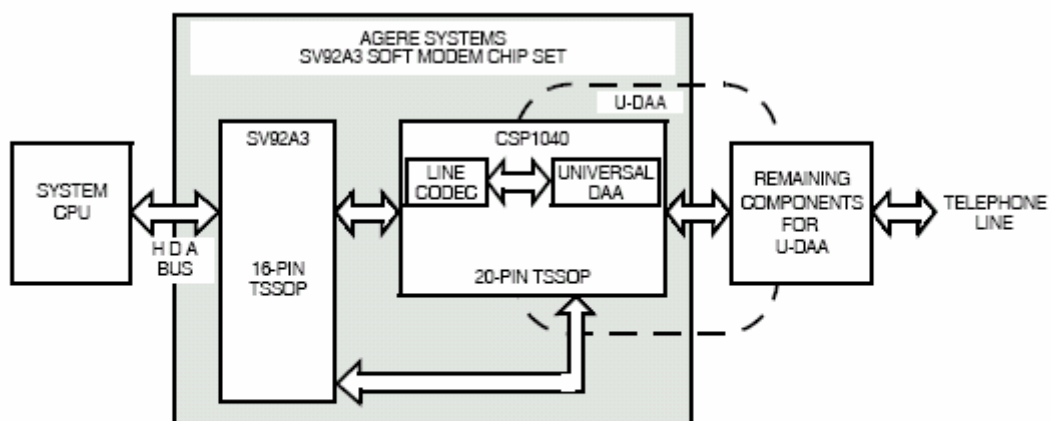


Figure 1. Functional Block Diagram

## 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 TM 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 32 / 64

Windows Vista 32 / 64

## 5. Environment Operating Range

Operating temperature: 0-65 degrees Celsius

Humidity: 10-90%, noncondensing

## 6. Power requirements

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

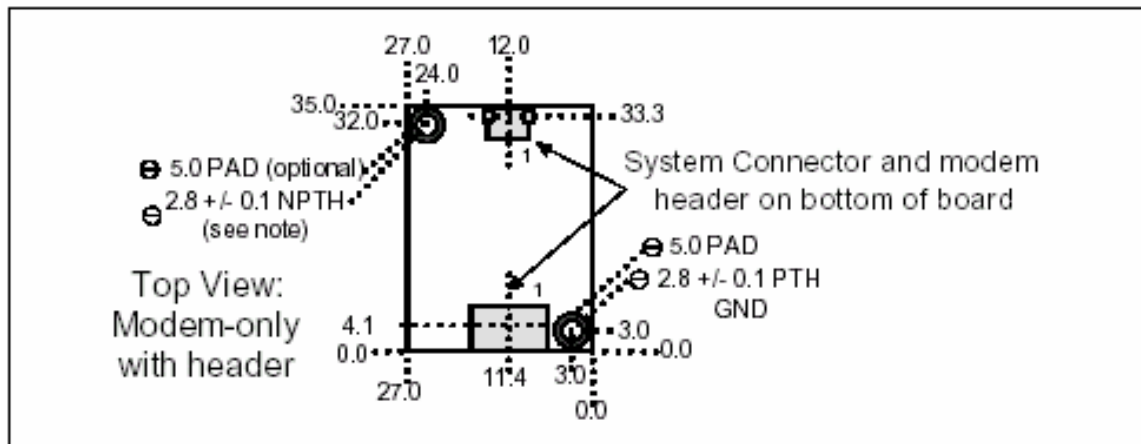
## 7. Power Dissipation

The typical approximated power dissipation is as below:

Power Dissipation for	Modem Card
Active (typical)	43 mW
Sleep mode	10 mW

## 8. MDC 1.5 Dimensions

### . Mechanical Dimensions for MDC 1.5 (Top View)



## 9. Pin Definition for MDC 1.5

Pin No	Definition	Definition	Pin No.
1	GND	RESERVED	2
3	Azalia SDO	RESERVED	4
5	GND	3.3 V main/aux	6
7	Azalia SYNC	GND	8
9	Azalia SDI	GND	10
11	Azalia RST#	Azalia BCLK	12