

# Qcom

## SPECIFICATIONS

of MDC1.5 Form Factor Azalai  
& V.92 Modem Card:

ML3054  
(PB-FREE)

Ver. 1A  
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**Approved by:**

## **Contents**

- 1. Description of MDC 1.5 Form Factor Azalia V.92 Modem Card**
- 2. Country Support**
- 3. Features**
- 4. Block Diagram**
- 5. Operating System Support**
- 6. Environmental Operating Range**
- 7. Power Requirements**
- 8. Power Dissipation**
- 9. MDC 1.5 Dimensions**
- 10. Pin Definition**

## 1. Description of MDC Form Factor Azalia V.92 Modem Card

ML3054 is an internal software modem card of the smallest MDC1.5 form factor. The modem design is based Azalia Interface software based modem. The functions of the modem include data, fax.

Available in two 16-pin small out-line packages (Azalia interface on Motorola SI3054 and phone-line interface on SI3018), the chip set eliminates the need for an analog front end (FAE), an isolation transformer, relays, opto-isolators, and a 2- to 4-wire hybrid. The ML3054 dramatically reduces the number of discrete components and cost required to achieve compliance with international regulatory requirements.

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.

## 2. Country Support

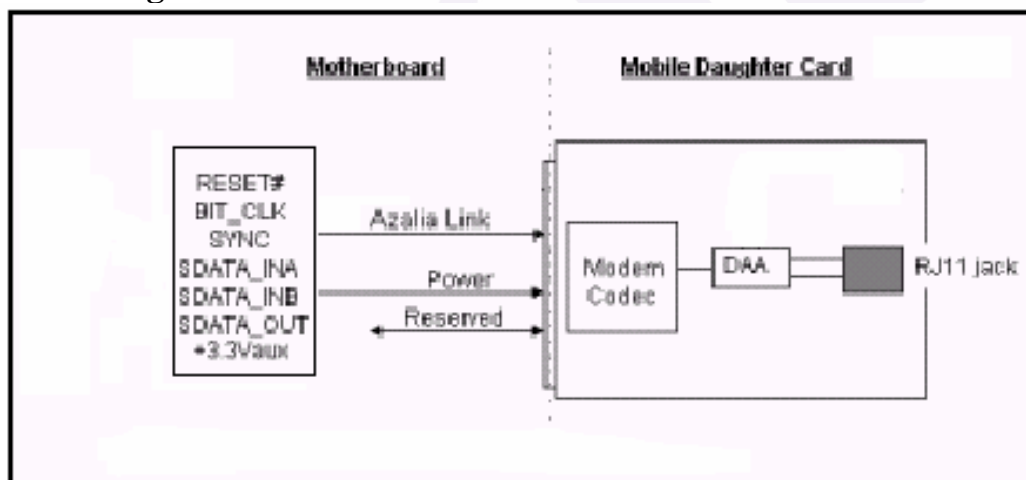
The DAA of the modem is designed to comply with the regulation of the following countries:

- America: US, Canada
- Asia: Japan, Singapore, Australia, New Zealand, Taiwan
- Europe: CE (28 European Countries)  
Austria, Belgium, Cyprus, Czech Public, Denmark, Estonia, Finland,  
France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia,  
Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal,  
Slovakia, Slovenia, Spain, Sweden, Switzerland, and UK

### 3. Features

- Data modem capabilities:
  - ITU-T.V.92\*: 56000 bits/s – 28000bits/s
  - ITU-T.V.90\*: 56000 bits/s – 28000bits/s
  - ITU-T.V.34: 33600 bits/s – 2400bits/s
  - V.32bis and fallbacks
  - V.44, V.42, V.42bis, and MNP Class 5 data compression
  - High compression throughput due to parallel access directly to the host PC
- Fax mode capabilities:
  - ITU-T T.31 class1 FAX, V.17, V.29, V.27, V.21

### 4. Block Diagram



### 5. Operating System Support

Windows 2000  
Windows XP

## 6. Environment Operating Range

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

## 7. Power requirements

Operating Voltage: +3.3V +- 5% @ 12 mA max

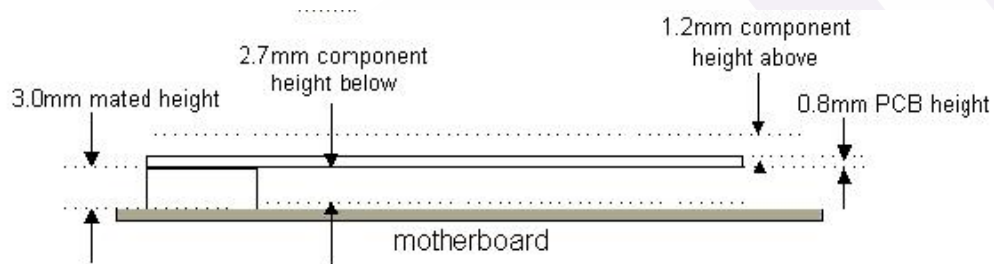
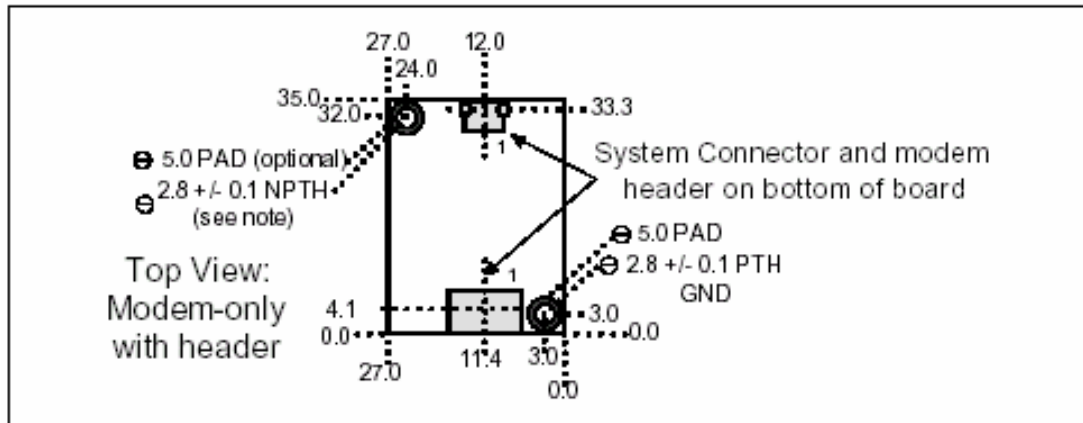
## 8. Power Dissipation

The typical approximated power dissipation is as below:

Power Dissipation for	Modem Card
Active (typical)	39.6 mW
Sleep mode	33 mW

### 9. MDC 1.5 Dimensions

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



### 10. 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/sux	6
7	Azalia SYNC	GND	8
9	Azalia SDI	GND	10
11	Azalia RST#	Azalia BCLK	12