1. INTRODUCTION

CT92246B1 is a Multi Chip Package Memory (MCP) that integrated 1G bits Mobile DDR SDRAM by advanced SiP (System-in-a-Package) technology. CT92246B1 offers space saving advantage that could miniaturize your portable device. And it is conformed with Green regulations.

1.1 Application

- Feature Phone
- Smart Phone
- MID

1.2 Features

PRODUCT LIST

- CT92246B1
  - Mobile DDR SDRAM: 1G bits (16M x4-Bank x16-bit)

POWER SUPPLY

- MOBILE DDR SDRAM
  - 1.7-1.9V

PACKAGE

- Solder Ball Material: 96.5%Sn / 3%Ag / 0.5% Cu
- TFBGA 8x10x1.2 mm, 60 Balls
- Ball Pitch: 0.8 mm
- Weight: TBD

Temperature

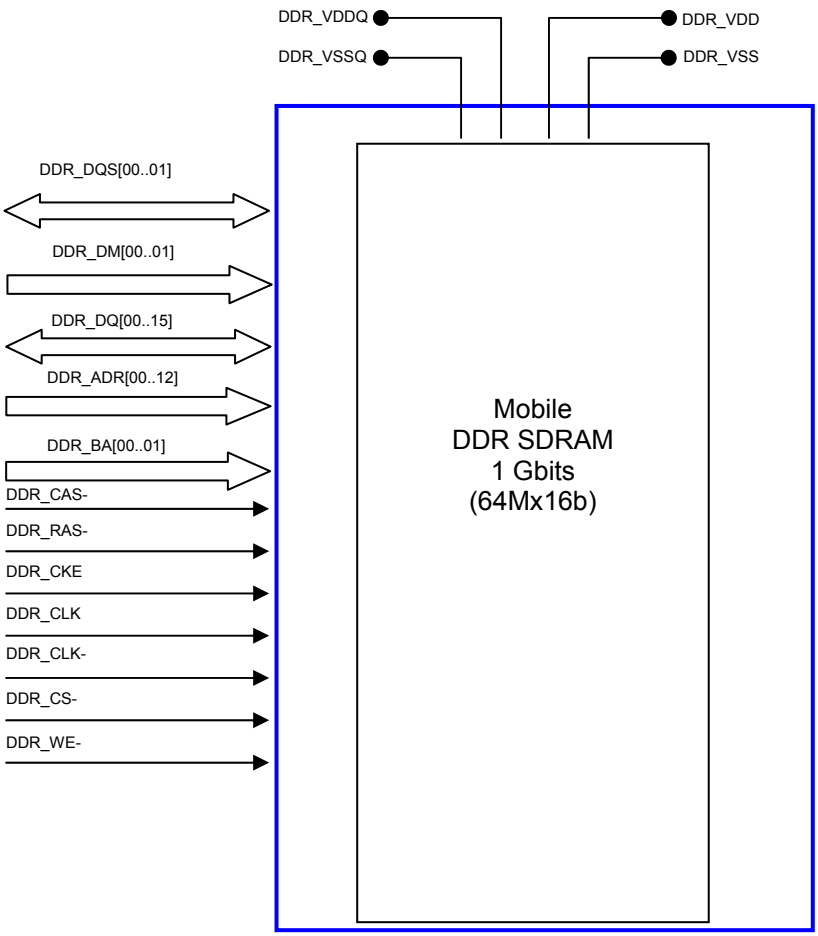
- Operating: 0 to +85 °C
- Storage: 0 to +150°C

Mobile DDR SDRAM

- 4 banks x 16M x 16 organization
- Data Mask for Write Control (DDR_DM[00..01])
- Four Banks controlled by DDR_BA00 & DDR_BA01
- Programmable DDR_CAS- Latency: 2, 3
- Programmable Wrap Sequence: Sequential or Interleave
- Programmable Burst Length:
  2, 4, 8 for Sequential Type
  2, 4, 8 for Interleave Type
- Automatic and Controlled Precharge Command
- Power Down Mode
- Auto Refresh and Self Refresh
- Refresh Interval: 8192 cycles/64ms
- Double Data Rate (DDR)
- Bidirectional Data Strobe (DDR_DQS[00..01]) for input and output data, active on both edges
- Differential clock inputs DDR_CLK and DDR_CLK-
- Drive Strength (DS) Option: Full, 1/2, 1/4, 1/8
- Auto Temperature-Compensated Self Refresh (Auto TCSR)
- Partial-Array Self Refresh (PASR) Option: Full, 1/2, 1/4, 1/8, 1/16
- Deep Power Down (DPD) mode

2. FUNCTION DIAGRAM

2.1 MCP



3. PIN CONFIGURATION

3.1 Pin Assignment

	01	02	03	04	05	06	07	08	09
A	DDR_VSS	DDR_DQ15	DDR_VSSQ				DDR_VDDQ	DDR_DQ00	DDR_VDD
B	DDR_VDDQ	DDR_DQ13	DDR_DQ14				DDR_DQ01	DDR_DQ02	DDR_VSSQ
C	DDR_VSSQ	DDR_DQ11	DDR_DQ12				DDR_DQ03	DDR_DQ04	DDR_VDDQ
D	DDR_VDDQ	DDR_DQ09	DDR_DQ10				DDR_DQ05	DDR_DQ06	DDR_VSSQ
E	DDR_VSSQ	DDR_DQS01	DDR_DQ08				DDR_DQ07	DDR_DQS00	DDR_VDDQ
F	DDR_VSS	DDR_DM01	NC				NC	DDR_DM00	DDR_VDD
G	DDR_CKE	DDR_CLK	DDR_CLK-				DDR_WE-	DDR_CAS-	DDR_RAS-
H	DDR_ADR09	DDR_ADR11	DDR_ADR12				DDR_CS-	DDR_BA00	DDR_BA01
J	DDR_ADR06	DDR_ADR07	DDR_ADR08				DDR_ADR10	DDR_ADR00	DDR_ADR01
K	DDR_VSS	DDR_ADR04	DDR_ADR05				DDR_ADR02	DDR_ADR03	DDR_VDD

TOP VIEW

5. PACKAGE DIMENSION (60 Ball VFBGA, 8x10x1.2mm)