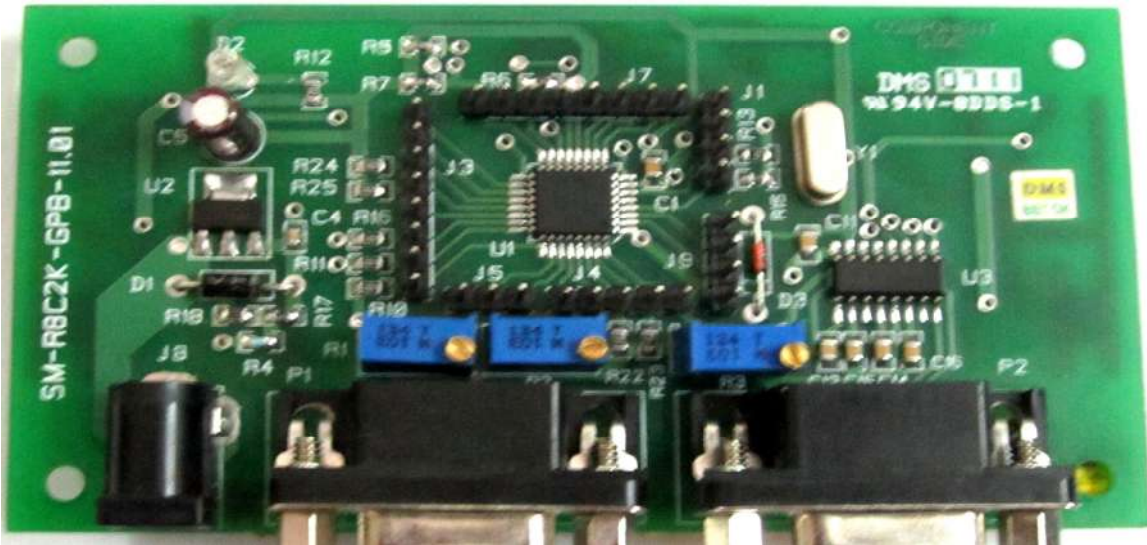


**SM R8C2K General Purpose Board  
Quick Start  
(V1.0)  
TOP VIEW**



**BOTTOM VIEW**



## REVISION HISTORY

Name	Date	Reason for changes	Version
SM R8C2K GPB	17/8/2011	First version released	1.0

### Introduction

The Evaluation board for R8C2K is intended as a user friendly introductory for the R8C2K microcontroller. The board provides useful platform for evaluating tools for coding and debugging, using the High-Performance Embedded workshop as well as programming the device using E8a emulator.

The purpose of the board is to enable the user to evaluate the capabilities of the device and its peripherals for this all the I/O pins are pulled out.

### Features supported on R8C2K General Purpose Board

#### ❖ MCU part number R5F212K2SNFP

- Program ROM :8K bytes
- RAM Capacity: 1K bytes
- Package type: PLQP0032GB-A
- Number of Pins: 32

#### ❖ Power Supply Section

- Input Voltage: Upto 9V
- Output Voltage:3.3V
- Voltage Regulator:LM7805

#### ❖ Peripherals Details

- SPI Serial port: Two Serial ports are used UART0 and UART2.
- Key Input Interrupt: Three Key Input Interrupt is used i.e. KI0, KI1 & KI2.
- Clock: External Crystal oscillator 20MHz.
  
- A/D converter: Three A/D converter is used i.e.AN2,AN4 & AN.7
- Input port : 12
- Output port: 3
- Input/Output:18

#### ❖ Tianma Graphic Display

- The TM12864J1CCWGWAs of 128x64dot-matrix LCD, and a single-chip S7567 which incorporates LCD controller and common/segment driver. This module can be connected directly to microprocessor with 4-line serial data interface. Built in a RAM with 65x132 bit capacity for storing the display data, so the unit can efficiently display the desired content under microprocessor control. Operating at a voltage of VDD=3.0V and Backlight drive current I=60mA & V=4.0V.