

RSK RX/62T General Purpose Board



Introduction

The Renesas Starter Kit for RX62T is intended as a user-friendly introductory and evaluation tool for the RX62T microcontroller. The board also provides a useful platform for evaluating the Renesas suite of development tools for coding and debugging, using High-performance Embedded Workshop as well as programming the device using E1 emulator.

The Renesas Starter Kit for RX62T may be connected to the host PC using a simple RS232 serial connection or via the included USB E1 on chip debugging interface.

The purpose of the board is to enable the user to evaluate the capabilities of the device and its peripherals by giving the user a simple platform on which code can be run only minutes from opening box. It can also prove an invaluable tool in development by providing a useful test platform for code already debugged using one of our more powerful emulation tools.

Functions and Specifications of RX62T RSK

❖ MCU part number R5F562TABDFH

- Program ROM :512K bytes
- RAM Capacity:96 K bytes
- Package type: PLQP0112JA-A
- Number of Pins: 144
- Capable of 165 DMIPS in operation at 100 MHz

- CISC Harvard architecture with 5-stage pipeline.
- Multi-Function Timer Pulse Unit and GPB.
- Best suited for motor control application and inverter.
- Using Timers we can control dead time of the edges .

❖ Power Supply Section

- Input Voltage: 5V

❖ Peripherals Details

- SCI: Serial port used is UART0.
- Clock: External crystal oscillator of 12MHz.
- A/D converter: Two A/D converter is used i.e.AN1
- IIC: SCL & SDA pins are pulled out.
- Input/output: 80
- LIN CONNECTOR
- CAN Controller with CAN Transceiver.
- High performance device with 1.65 DMIPS per MHz
- Debug lcd connector
- Reset circuit