

Renesas Starter Kit for M32C87 Full Product Info

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Documentation

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- Requirements
- Technical Support

Downloads

Purchasing Info



Tool Data Link

Please contact your distributor for the orderable part number for this device.

Renesas Starter Kit for M32C87

Target Devices

Device Group: M32C87
Device Part No. supported on the board: M32C87FLGP

For more information on the microcontroller please view the M32C87 Device page. [Link to M32C87 Device page](#)

Product Overview

The Renesas Starter Kit for M32C87 is intended as a userfriendly introductory and evaluation tool for the M32C87 microcontroller. The board also provides a useful platform for evaluating the Renesas suite of development tools for coding and debugging, using HighPerformance Embedded Workshop as well as programming the device using E8a emulator and/or Flash Development Toolkit.

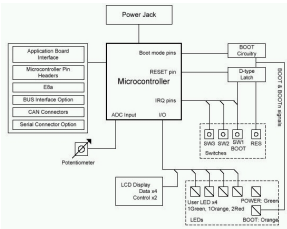
The Renesas Starter Kit for M32C87 may be connected to the host PC using a simple RS232 serial connection (not normally fitted) or via the included USB E8a on chip debugging interface.

The purpose of the board is to enable the user to evaluate the capabilities of the device and its peripherals by giving the user an environment in which code can be run only inside non-volatile flash. It also provides an immediate test in development by providing a useful test platform for code already debugged using one of our more powerful emulation tools.

Note

If you wish to use the Renesas Starter Kit for M32C87 with the Renesas Starter Kit Ethernet & USB Application Board please contact your regular Renesas Tools supplier for further information as some modifications may be required to your Renesas Starter Kit.

Functional Representation



Kit Contents

- CPU Board
- Detachable LED Display Module
- Detachable AD-Adjustment Shaft
- E8a Emulator
- Connection Cable (USB Cable, User Interface Cable)
- Guide Start Guide
- CD-ROM
- Documentation: User Manual, Tutorial, and more
- IDE: HighPerformance Embedded Workshop
- C-Compiler: M32C87EVA Evaluation Version
- Debugger: E8a Emulator Debugger
- Flash Memory Programmer: Flash Development Toolkit Evaluation Version

Notes

- The M32C87EVA Evaluation Version does not come with technical support services. In addition, The M32C87EVA Evaluation Version has some limitations compared to the M32C87EVA Professional Version.

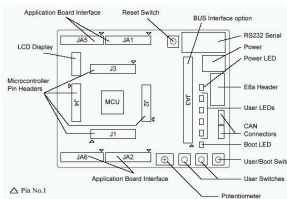
Trial period: 60 days

The kit can be used for 60 days after 60 days.

- The Flash Development Toolkit Evaluation Version does not come with technical support services.

Board Layout

The LCD display module is supplied as a detachable sub-board. The board dimensions are 120mm by 100mm, detachable displays are available in the user manual.



Board Specification

Item	Specification
Microcontroller	M32C87FLGP
Input Clock	Main: 10MHz Sub: 32.768kHz
Potentiometer	Singleturn, 10k Ω
LED	Power indicator: green x 1 Boot indicator: orange x 1 User: green x 1, orange x 1, red x 2
Switch	Reset x 1 User/Boot x 1
DC Power Jack	5V Input
E8a Header	14-pin box header
RS232 Serial Connector	9-pin D-sub
LCD Display Connector	14-pin socket
CAN Connector	2.54mm pitch, 5pin x 2 (CAN BUS line x 2, Ground x 1)
Microcontroller Pin Header	2.54mm pitch, 36pin x 2 (J1, J2), 20pin x 2 (J3, J4)
Application Board Interface	2.54mm pitch, 26pin x 2 (J1, J2), 24-pin x 2 (J3, J4)
RS232 Serial Connector	2.54mm pitch, 9pin

*RS232 Serial Connector, CAN Connector, Microcontroller Pin Header, Application Board Interface and BUS Interface Option are not contained in that product.

Ordering Information

This product is in mass production. This product can be purchased through <http://www.renesas.com/usa>

Product Name	Supported Device Group	Part Number (Ordering Number)	Availability
Renesas Starter Kit for M32C87	M32C87	R0K320875000B0	Available

PC System Requirements

- IBM PC/AT or compatible PC (USB interface necessary) *1
- Intel Pentium® 60MHz or higher *3
- Memory 128KB or higher
- Microsoft Windows 2000/Windows XP *2

*1 IBM and PC/AT are registered trademarks of International Business Machines Corporation of the U.S.
*2 MS, MSDOS and Windows are registered trademarks of Microsoft Corporation of the U.S.
*3 Pentium is a trademark of Intel Corporation of the U.S.

Technical Support

If you encounter problems concerning the bundled debugger (E8a), please contact <http://www.renesas.com/usa>, or rsk@renesas.com.

When contacting us, please have the following information ready: your name, company name, department name, the number (MCU) part number (ex. M32C87FLGP), lot part number, version of debugger and a brief description of the problem.

C-Compiler M32C87EVA Evaluation Version and Flash Development Toolkit Evaluation Version do not come with technical support services.