

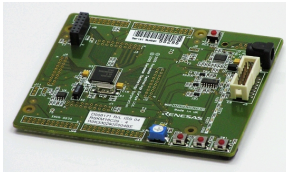
Renesas Starter Kit for M16C29

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Tool Download

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

Renesas Starter Kit for M16C29
Target Devices

Device Group: M16C29
 Device Part No. supported on the board: M16C29C0P

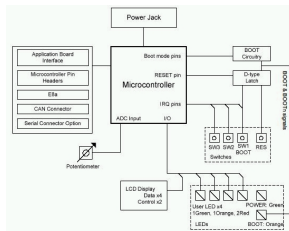
For more information on the microcontroller please view the M16C29 Device page. [Link to M16C29 Device page](#)

Product Overview

The Renesas Starter Kit for M16C29 is intended as a seamlessly introductory and evaluation test for the M16C29 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 Elta emulator and/or Flash Development Toolkit.

The Renesas Starter Kit for M16C29 may be controlled on the host PC using a simple RS232 serial connection (not normally needed) or via the included USB Elta 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 removed from operating host. 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 emulator tools.

Functional Representation

Kit Contents

- 1 CPU Board
- 1 Detachable LCD Display Module
- 1 Detachable Q1 Adjustment Switch
- 1 Elta Emulator
- 1 Connection Cable (USB Cable, User Interface Cable)
- 1 Quick Start Guide
- 1 CD-ROM
 - Documents: User Manual, Tutorial, and more
 - IDE: HighPerformance Embedded Workshop
 - C Compiler: M16C29MVA Evaluation Version
 - Debugger: Elta Emulator Debugger
 - Flash Memory Programmer: Flash Development Toolkit Evaluation Version

Notes

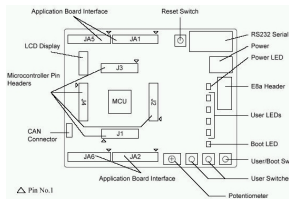
- The M16C29MVA Evaluation Version does not come with technical support services. In addition, The M16C29MVA Evaluation Version has some restrictions compared to the M16C29MVA Professional Version.

Total period: 60 days
The kit test will be tested to 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, detailed dimensions are available in the user manual.


Board Specification

Item	Specification
Microcontroller	M16C29C0P
Input Clock	Main: 20MHz Sub: 32.768kHz
Potentiometer	Singleslot, 15kΩ
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 User x 2
DC Power Jack	5V Input
Elta Header	14-pin test header
RS232 Serial Connector	9-pin DB9
LCD Display Connector	14-pin socket
CAN Connector	2.54mm pitch, 30pin (CAN Bus line x 2, Ground x 1)
Microcontroller Pin Header	2.54mm pitch, 28pin x 4
Application Board Interface	2.54mm pitch, 28pin x2 (JA1, JA2), 24 pin x 2 (JA3, JA4)

* RS232 Serial Connector, CAN Connector, Microcontroller Pin Header and Application Interface are not contained in the product.

Ordering Information

This product is in mass production. This product can be purchased through dq.renesas.com/online_catalog

Product Name	Supported Device Group	Part Number (Ordering Number)	Availability
Renesas Starter Kit for M16C29	M16C29	RSK12029C0000E	Available

PC System Requirements

- 1 IBM PC/AT or compatible PC (USB interface necessary) *1
- 1 Intel Pentium® 80MHz or higher *3
- 1 Memory 128MB or higher
- 1 Microsoft Windows 2000 Windows XP *2
- *1: IBM and PC AT are registered trademarks of International Business Machines Corporation of the U.S.
- *2: MSN, MSN2000 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 (ESL), please contact rsk@renesas.com, or <http://www.renesas.com/rsk>

When contacting us, please have the following information ready: your name, company name, department name, box number, MCU part number (ex. M16C29C0P), test part number, version of debugger and a brief description of the problem.

C Compiler M16C29MVA Evaluation Version and Flash Development Toolkit Evaluation Version do not come with technical support services.