E100

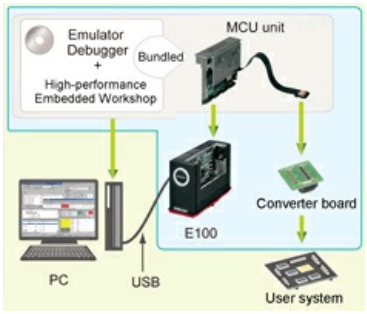
Products
Software and Tools
Emulation and Debugging
In-circuit Emulators
E100
R0E556100MCU00
R0E521500MCU00
R0E521300MCU00
R0E530650MCU00
R0E535M00MCU00
R0E417250MCU00
R0E424270MCU00
R0E420000MCU00
R0ESRS400MCU00
IE850
IECUBE
E200F
E6000H
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IE-V850E-MC
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IE-703002-MC
IE-703102-MC
IE-78K0S-NS
LCE-78K0
LCE-78K0S

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Top | Features | Components | Specifications | Debug Functions | System Configuration | External Dimensions | Target Devices/ Product Lineups

Basic System Configuration

E100 emulator system is composed of the products below.
- E100
- MCU Unit (varying depending on target MCUs.)
- Converter Board (varying depending on target MCUs.)

We also offer bundled packages for sale.



Target Devices/ Product Lineups

- RX Family
  - RX600 Series
- R8C Family
  - R8C/5x Series
  - R8C/3x Series
- Others
  - M16C Family
  - H8SX Family
  - H8S Family
  - R-Secure

* The present users of these models can continually receive our support service.
* As for the list of previous codes corresponding to current codes, see here . > "Renesas Microcomputer General Catalog" > "Package Code and Size Table"

» RX Family

» RX600 Series

» RX610 Group

MCU package	System Configuration		
144-pin 0.5mm-pitch LQFP PLQP0144KA-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E556100MCU00 · Converter Board R0E556100CFK00		Bundled Package Name **R0E556100EMU01**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

Notes:
1. Two sets of R0E001000FLX00 are necessary to expand I/F cables.
2. It is necessary for external trigger event and for obtaining trace data of external signals.
3. It is used to measure the signals of individual pins.

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» R8C Family

» R8C/5x Series

» R8C/54E, R8C/54F, R8C/54G, R8C/54H Groups

MCU package	System Configuration		
48-pin 0.5mm-pitch LQFP PLQP0048KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E521500MCU00 · Converter Board R0E53054ECFK60		Bundled Package Name **R0E521500EMU01**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

>> R8C/56E, R8C/56F, R8C/56G, R8C/56H Groups

MCU package	System Configuration		
64-pin 0.5mm-pitch LQFP PLQP0064KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E521500MCU00 · Converter Board R0E53036ACFK40		Bundled Package Name **R0E521500EMU02**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

» R8C/3x Series

» *R8C/38A*, R8C/38C, R8C/38M, R8C/38E, R8C/38F, R8C/38G, R8C/38H, R8C/38W, R8C/38X, R8C/38Y, R8C/38Z Groups

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Version Information

RX E100 Emulator Software
Latest Ver.: V.1.00 Release 00
Released: Sep 16, 2010
Details of upgrade (Tool News)

M16C R8C E100 Emulator Software
Latest Ver.: V.1.03 Release 02
Released: Jan 16, 2012
Details of upgrade (Tool News)

H8SX E100 Emulator Software
Latest Ver.: V.1.01 Release 00
Released: Aug 16, 2010
Details of upgrade (Tool News)

H8S/Tiny H8S/2400 E100 Emulator Software
Latest Ver.: V.2.00 Release 00
Released: Aug 1, 2010
Details of upgrade (Tool News)

Related Resources

Renesas IDE High-performance Embedded Workshop

Evaluation Software Tools Download

Tool News

Windows compatibility status

Tool Environmental Information

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MCU package	System Configuration	
80-pin 0.5mm-pitch LQFP PLQP0080KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E521300MCU00 · Converter Board R0E53038ACFK30	Bundled Package Name **R0E521300EMU01**
	· Extension Flexible Cable[1] (optional) R0E001000FLX00	
	· External Trigger Cable[2] (optional) R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional) R0E001000ACB00	

» *R8C/36A*, R8C/36C, R8C/36M, R8C/36E, R8C/36F, R8C/36G, R8C/36H, R8C/36W, R8C/36X, R8C/36Y, R8C/36Z Groups

MCU package	System Configuration	
64-pin 0.5mm-pitch LQFP PLQP0064KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E521300MCU00 · Converter Board R0E53036ACFK40	Bundled Package Name **R0E521300EMU02**
	· Extension Flexible Cable[1] (optional) R0E001000FLX00	
	· External Trigger Cable[2] (optional) R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional) R0E001000ACB00	

» *R8C/35A*, R8C/35C, R8C/35D, R8C/35M Groups

MCU package	System Configuration	
52-pin 0.65mm-pitch LQFP PLQP0052JA-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E521300MCU00 · Converter Board R0E53035ACFJ50	Bundled Package Name **R0E521300EMU03**
	· Extension Flexible Cable[1] (optional) R0E001000FLX00	
	· External Trigger Cable[2] (optional) R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional) R0E001000ACB00	

» R8C/34E, R8C/34F, R8C/34G, R8C/34H, R8C/34P, R8C/34R, R8C/34W, R8C/34X, R8C/34Y, R8C/34Z Groups

MCU package	System Configuration	
48-pin 0.5mm-pitch LQFP PLQP0048KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E521300MCU00 · Converter Board R0E53034ECFK60	Bundled Package Name **R0E521300EMU04**
	· Extension Flexible Cable[1] (optional) R0E001000FLX00	
	· External Trigger Cable[2] (optional) R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional) R0E001000ACB00	

» *R8C/33A*, R8C/33C, R8C/33D, R8C/33M Groups

MCU package	System Configuration	
32-pin 0.8mm-pitch LQFP PLQP0032GB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E521300MCU00 · Converter Board R0E53033ACFG90	Bundled Package Name **R0E521300EMU05**
	· Extension Flexible Cable[1] (optional) R0E001000FLX00	
	· External Trigger Cable[2] (optional) R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional) R0E001000ACB00	

» *R8C/32A*, R8C/32C, R8C/32D, R8C/32M Groups

MCU package	System Configuration	
20-pin 0.65mm-pitch LSSOP PLSP0020JB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E521300MCU00 · Converter Board R0E53032ACSJC0	Bundled Package Name **R0E521300EMU06**
	· Extension Flexible Cable[1] (optional) R0E001000FLX00	
	· External Trigger Cable[2] (optional) R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional) R0E001000ACB00	

» *R8C/36A*, R8C/36C, R8C/36M Groups

MCU package	System Configuration	
64-pin 0.8mm-pitch LQFP PLQP0064GA-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E521300MCU00 · Converter Board R0E53036ACFG40	Bundled Package Name **R0E521300EMU07**
	· Extension Flexible Cable[1] (optional) R0E001000FLX00	
	· External Trigger Cable[2] (optional) R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional) R0E001000ACB00	

» R8C/34C, R8C/34M Groups

MCU package	System Configuration	
48-pin 0.5mm-pitch LQFP PLQP0048KB-A	· E100 R0E001000EMU00 · MCU Unit R0E521300MCU00 · Converter Board R0E53034ACFK60	Bundled Package Name **R0E521300EMU08**

Feedback

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Click here for usage examples.	· Extension Flexible Cable[1] (optional)	R0E001000FLX00
	· External Trigger Cable[2] (optional)	R0E001000EXT00
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00

» R8C/33G, R8C/33H Groups

MCU package	System Configuration		
32-pin 0.8mm-pitch LQFP PLQP0032GB-A Click here for usage examples.	· E100 · MCU Unit · Converter Board	R0E001000EMU00 R0E521300MCU00 R0E53033GCFG90	Bundled Package Name **R0E521300EMU09**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

» R8C/32G, R8C/32H Groups

MCU package	System Configuration		
20-pin 0.65mm-pitch LSSOP PLSP0020JB-A Click here for usage examples.	· E100 · MCU Unit · Converter Board	R0E001000EMU00 R0E521300MCU00 R0E53032GCSJC0	Bundled Package Name **R0E521300EMU0A**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

Notes:
1. One set of R0E001000FLX00 is necessary to expand I/F cables.
2. It is necessary for external trigger event and for obtaining trace data of external signals.
3. It is used to measure the signals of individual pins.

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» M16C Family

» M16C/60 Series

» M16C/64 Group

MCU package	System Configuration		
100-pin 0.65mm-pitch QFP PRQP0100JD-B Click here for usage examples.	· E100 · MCU Unit · Converter Board	R0E001000EMU00 R0E530640MCU00 R0E0100TNPFJ00	Bundled Package Name **R0E530640EMU01**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	
100-pin 0.5mm-pitch LQFP PLQP0100KB-A Click here for usage examples.	· E100 · MCU Unit · Converter Board	R0E001000EMU00 R0E530640MCU00 R0E0100TNPFK00	Bundled Package Name **R0E530640EMU02**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

» M16C/64A, M16C/64C[4], M16C/65, M16C/65C[4] Groups

MCU package	System Configuration		
100-pin 0.65mm-pitch QFP PRQP0100JD-B Click here for usage examples.	· E100 · MCU Unit · Converter Board	R0E001000EMU00 R0E530650MCU00 R0E0100TNPFJ00	Bundled Package Name **R0E530650EMU01**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	
100-pin 0.5mm pitch LQFP PLQP0100KB-A Click here for usage examples.	· E100 · MCU Unit · Converter Board	R0E001000EMU00 R0E530650MCU00 R0E0100TNPFK00	Bundled Package Name **R0E530650EMU02**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

» M16C/65, M16C/65C[4] Groups

MCU package	System Configuration		
128-pin 0.5mm-pitch LQFP PLQP0128KB-A Click here for usage examples.	· E100 · MCU Unit · Converter Board	R0E001000EMU00 R0E530650MCU00 R0E530650CFK10	Bundled Package Name **R0E530650EMU03**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	

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Click here for usage examples.	· External Trigger Cable[2] (optional)	R0E001000EXT00
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00

» **M16C/50 Series**		
» M16C/5M, M16C/57 Groups		
MCU package	System Configuration	
100-pin 0.5mm-pitch LQFP PLQP0100KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E535M00MCU00 · Converter Board R0E0100TNPFK00	Bundled Package Name **R0E535M00EMU01**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00
	· External Trigger Cable[2] (optional)	R0E001000EXT00
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00
» M16C/5L, M16C/56, M16C/5LD, M16C/56D, M16C/5M, M16C/57 Groups		
MCU package	System Configuration	
80-pin 0.5mm-pitch LQFP PLQP0080KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E535M00MCU00 · Converter Board R0E535M00CFK30	Bundled Package Name **R0E535M00EMU02**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00
	· External Trigger Cable[2] (optional)	R0E001000EXT00
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00
64-pin 0.5mm-pitch LQFP PLQP0064KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E535M00MCU00 · Converter Board R0E535M00CFK40	Bundled Package Name **R0E535M00EMU03**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00
	· External Trigger Cable[2] (optional)	R0E001000EXT00
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00

Notes:
1. Two sets of R0E001000FLX00 are necessary to expand I/F cables.
2. It is necessary for external trigger event and for obtaining trace data of external signals.
3. It is used to measure the signals of individual pins.
4. While some functions are not supported, they can be debugged using the E100 emulator for M16C/64A and M16C/65 Groups.
Click here for inquiries regarding the function limitations.

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» **H8SX Family**		
» **H8SX/1700 Seriea**		
» H8SX/1720 Groups		
MCU package	System Configuration	
100-pin 0.5mm-pitch LQFP PLQP0100KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E417250MCU00 · Converter Board R0E0100TNPFK00	Bundled Package Name **R0E417250EMU01**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00
	· External Trigger Cable[2] (optional)	R0E001000EXT00
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00

Notes:
1. Two sets of R0E001000FLX00 are necessary to expand I/F cables.
2. It is necessary for external trigger event and for obtaining trace data of external signals.
3. It is used to measure the signals of individual pins.

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» **H8S Family**		
» **H8S/Tiny Series**		
» H8S/20203, H8S/20223, H8S/20215, H8S/20235 Groups		
MCU package	System Configuration	
80-pin 0.65mm-pitch LQFP PLQP0080JA-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E420000MCU00 · Converter Board R0E420000CFJ30	Bundled Package Name **R0E420000EMU01**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00
	· External Trigger Cable[2] (optional)	R0E001000EXT00
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00
» H8S/20103, H8S/20115 Groups		
MCU package	System Configuration	
64-pin 0.5mm-pitch LQFP PLQP0064KB-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E420000MCU00 · Converter Board R0E420000CFK40	Bundled Package Name **R0E420000EMU02**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00

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Click here for usage examples.	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	
64-pin 0.8mm-pitch LQFP PLQP0064GA-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E420000MCU00 · Converter Board R0E420000CFG40		Bundled Package Name **R0E420000EMU03**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

» **H8S/2400 Series**

» H8S/2425 Group

MCU package	System Configuration		
120-pin 0.4mm-pitch PLQP0120LA-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E424270MCU00 · Converter Board R0E424270CFLE0		Bundled Package Name **R0E424270EMU01**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	
120-pin 0.5mm-pitch PLQP0120KA-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E424270MCU00 · Converter Board R0E424270CFKE0		Bundled Package Name **R0E424270EMU02**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

» H8S/2427, H8S/2427R Groups

MCU package	System Configuration		
144-pin 0.5mm-pitch PLQP0144KA-A Click here for usage examples.	· E100 R0E001000EMU00 · MCU Unit R0E424270MCU00 · Converter Board R0E0144TNPFK00		Bundled Package Name **R0E424270EMU03**
	· Extension Flexible Cable[1] (optional)	R0E001000FLX00	
	· External Trigger Cable[2] (optional)	R0E001000EXT00	
	· MCU Signal Measurement Board[3] (optional)	R0E001000ACB00	

Notes:
1. Two sets of R0E001000FLX00 are necessary to expand I/F cables.
2. It is necessary for external trigger event and for obtaining trace data of external signals.
3. It is used to measure the signals of individual pins.

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» **R-Secure**

» **RS-4 Series**

» RS45C, RS44C, RS47X**, RS46X**, RS45X**, RS44X**

MCU package	System Configuration		
IC Card	· E100 R0E001000EMU00 · MCU Unit R0ESRS400MCU00		Bundled Package Name **R0ESRS400EMU00**

** : Scheduled to be supported

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