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Renesas Electronics website: http://www.renesas.com

April 1st, 2010 Renesas Electronics Corporation

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V850 series

Tool Letter

In-Circuit Emulator IECUBE **QB-V850ESFX2-ZZZ-EE**

Description

The QB-V850ESFX2-ZZZ-EE is a member of NEC's new in-circuit emulator series: IECUBE. This IECUBE member is used to emulate devices of the F_Line: V850ES/FE2, V850ES/FF2, V850ES/FG2 and V850ES/FJ2.

In-Circuit Emulator

USB Host Interface

• Rev. 2.0 supported

Device Emulation

- Frequency and voltage:
 Same as the target device
 - max. up to 20 MHz
 - min. 3.5 V up to max. 5.5 V
- Memory capacity:

Same as the target device

- up to 1 MB internal ROM
- up to 60 KB internal RAM

Break Function

- Hardware Execution: 10 points
 Access: 6 points
- Software: 2000 points

Trace Functions

- Trace memory capacity of 256 K frames x 160 bit
- Trace modes are:
 Speed priority or trace priority
- Trace events can be: Section, qualify, execution event and access event

Program Execution Function in Real Time

Real Time RAM Monitor Function

• 256 Kbytes x 8 points

Time Measurement

Clock: CPU clock or other dedicated clock
Maximum measurement: 195 hours
Maximum resolution: 20 ns
Timers used for measurement: 8
Minimum, maximum and average

Attachments

Software:

 Full IAR Embedded Workbench™ (size limited to 64 Kbyte hex code)

Hardware:

- Power supply
- USB interface cable
- USB Flash programmer (PG-FPL)









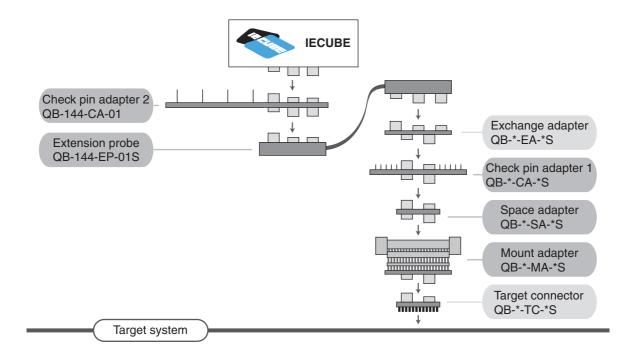
In-Circuit Emulator *IECUBE*

QB-V850ESFX2-ZZZ-EE

Socket Tool Configuration

	144GJ	100GC	80GK	64GB	
Exchange Adapter	QB-144GJ-EA-03S	QB-100GC-EA-01S	QB-80GK-EA-02S	QB-64GB-EA-01S	Mandatory
Target Connector	QB-144GJ-TC-01S	QB-100GC-TC-01S	QB-80GK-TC-01S	QB-64GB-TC-01S	
Mount Adapter	QB-144GJ-MA-01S	QB-100GC-MA-01S	QB-80GK-MA-01S	QB-64GB-MA-01S	
Space Adapter	QB-144-SA-01S	QB-100-SA-01S	QB-80-SA-01S	QB-64-SA-01S	
Check Pin Adapter 1	QB-144-CA-01S	QB-100-CA-01S	QB-80-CA-01S	QB-64-CA-01S	Optional
Check Pin Adapter 2	QB-144-CA-01				
Extension Probe	QB-144-EP-01S				

Order Number IECUBE In-Circuit Emulator: QB-V850ESFX2-ZZZ-EE



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