RENESAS Tool News

Solution Toolkit:
Release of Technical Preview Edition as V1.0.0 of QE for Bluetooth Smart QE - A Dedicated Tool for Developing Bluetooth Smart Applications

We will release a technical preview of V1.0.0 of QE for Bluetooth Smart as a solution toolkit. QE is a collective term for a set of embedded software development tools, each of which is dedicated to the development of particular types of application. QE for Bluetooth Smart is a solution tool for the more efficient development of systems employing Bluetooth Smart. Refer to point 6 of this issue for a general description of QE tools for dedicated applications.

This product is an extension plug-in for the e^2 studio integrated development environment. That is, the tool is installed in the e^2 studio for use.

For details of the product, visit our Web site at:
https://www.renesas.com/qe_ble This information will be available from March 22.

Bluetooth is a registered trademark of Bluetooth SIG, Inc.

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1. QE for Bluetooth Smart
   The QE for Bluetooth Smart is a dedicated tool for developing Bluetooth Smart systems to run on the RL78/G1D MCU. This solution toolkit runs in the e^2 studio integrated development environment.
   The combination of the e^2 studio and QE for Bluetooth Smart makes it easy to test the communications features of Bluetooth Smart, thus reducing development periods up to products being placed on the market.

   This product is a technical preview, and we request and will greatly appreciate any feedback you may have after trying it out.
   Send your e-mail with any feedback to the below address.

Mailing address: qe_feedback@lm.renesas.com

No support, including responses to inquiries through contact points, is provided for the technical preview. Also note that the quality is not guaranteed, please accept this before trying it.

For details of the product, visit our Web site at:
https://www.renesas.com/qe_ble
The above program will be available from March 22.

2. Features
  - Easy testing of communications via Bluetooth Smart
    You can try communications based on Bluetooth Smart with a scripting feature for calling API commands for the Bluetooth Low Energy protocol stack.
    With this feature, you can soon start testing Bluetooth Smart operations, leaving you to concentrate on understanding or studying the basic features of communications, without having to create a complicated embedded program requiring initial settings for an MCU and so on.

  - Limitless usages and combinations
    A PC can be virtually handled as a Bluetooth Smart device by using the scripting feature of QE for Bluetooth Smart.
    Since Bluetooth Smart communications can be controlled by a PC (QE for Bluetooth Smart runs under the e^2 studio), you can test your rough ideas (e.g., for operation with a Heart Rate Profile (HRP) device) by using the scripting feature to verify its operation, even though your original hardware is not yet ready.

3. Supported MCUs
  RL78 family: RL78/G1D group

  Remark: The Renesas evaluation kit is available for testing easily the performance and features of the RL78/G1D MCU, which includes a Bluetooth Smart module.
  Refer to the following Web page for the details of the evaluation kit.
https://www.renesas.com/solutions/key-technology/connectivity/bluetooth-smart.html

    You can check our approach to Bluetooth Smart at the following Web page.
    https://www.renesas.com/bluetooth_smart/

4. Environments Supported by this Version
  - Operating Environments: Windows 10 (32- and 64-bit),

Windows 8.1 (32- and 64-bit),
and Windows 7 (32- and 64-bit)
- Integrated development environment: e^2 studio V4.1.0 and later versions

5. Installation
Access the below URL and install "QE for Bluetooth Smart V1.0.0"
 https://www.renesas.com/qe_ble_download

The above program will be available from March 22.

 Remark: After installation, the tool can run as a plug-in of the
  e^2 studio .

6. QE: Dedicated Tools for Particular Applications
As one of our solution toolkits, we will be expanding our range of
dedicated Quick and Effective (QE) tools for particular applications
(tool solutions) to add to the range of development and know-how for
applications.
In addition to the QE for Bluetooth Smart dedicated to Bluetooth Smart
systems, we will be providing further development tools to suit various
other applications.

For details of the QE tools for particular applications, visit our Web
site at:
https://www.renesas.com/qe
The above program will be available from March 22.