

H8TINY Development Environment

06JAN2004

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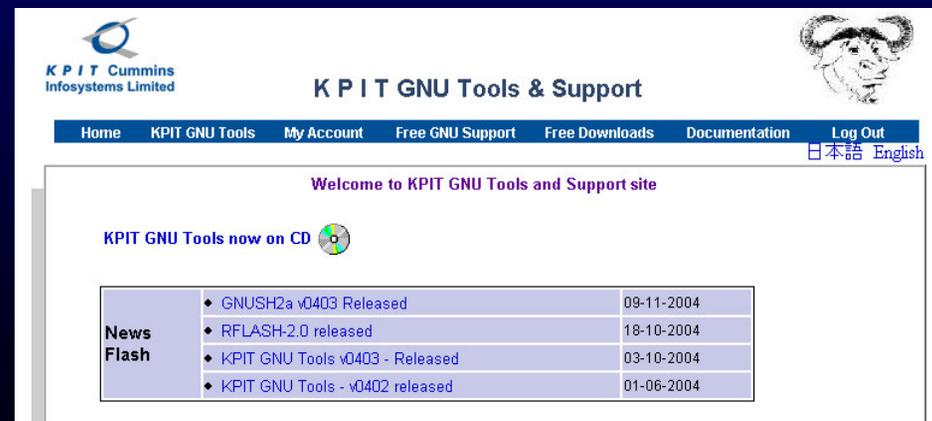
1. Free Development Environment

| Package Name | Provider | Lang. | Note |
|--------------------|-----------------|-------------------|---|
| HEW3 | RENESAS | Japanese, English | Supporting CPU: Most RENESAS MPU. 3 Month Evaluation package IDE (Integrated Development Env.) Strong Simulator for DEBUG. |
| GCC Developer Lite | Best Technology | Japanese | Supporting CPU: Major H8 Series and SH Series for Hobby Use. Easy Startup. IDE (Only one source file). |
| GCC+Cygwin | GNU, Red hat | English | Supporting CPU: Need Customize. Execution on LINUX Emulator (Cygwin). Command Line. Simple Environment. |
| KPIT GCC+HEW3 | KPIT | English | Supporting CPU: SH and H8, H8TINY. IDE. (Same as RENESAS HEW3) Strong Simulator for DEBUG. |

2. How to Download ^{1/4}

➤ Contact KPIT Homepage

- <http://www.kpitgnu.com/index.php>
- Click [Register], and Sign-up Account. (Free Charge)
- Wait email “Registration to KPIT GNU tools”.
- After a few hour, you will get password.
 - They approve registration manually at KPIT Cummins on working days.



2. How to Download 2/4

➤ Download Tools for H8 MPU

- We need “Tool Chain” for development. The “Tool Chain” means compiler, debugger and etc... for HEW3. At first, we need to download these tools.
 1. Login KPIT Homepage
 2. Select menu [Free Downloads]-[KPIT GNU Tools]
 3. Download GNUH8
 - “GNUH8 v0403 Windows Tool Chain (ELF)”
 4. Download GDBH8
 - “GDBH8 v0402 Windows Debugger (COFF/ELF Format)”

2. How to Download ^{3/4}

➤ Download HEW3

- HEW3 is IDE (Integrated Development Environment) Tools. We use Compiler and Debugger on HEW3.

1. Login KPIT Homepage

2. Select menu [Free Downloads]-[Renesas Tools]

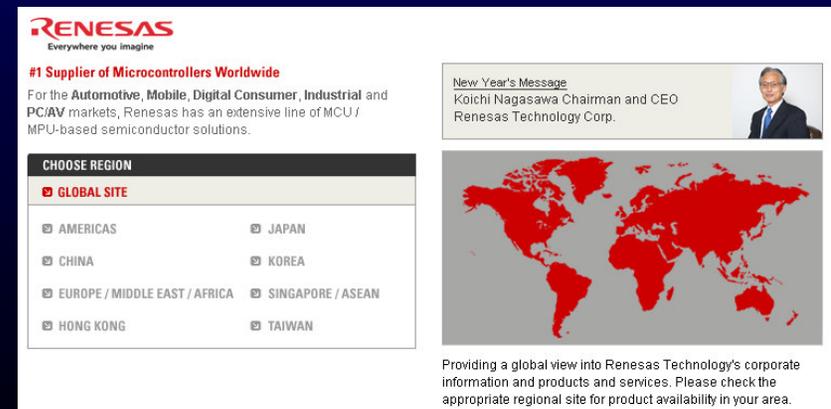
3. Download HEW3

- “HEW 3.0.6-ntc for KPIT GNU Tools with Simulators”

2. How to Download 4/4

➤ Download FDT3

- FDT3 is writing software for Renesas MPU. Programmer can write to ROM on Board by Serial Communication (RS232C) by this tools.
- 1. Connect to Renesas Homepage. (<http://www.renesas.com/>)
- 2. Click [GLOBAL SITE]→[Software and Tools]→[Download]
- 3. Check [Agree] and [Submit] for agreement document.
- 4. Click [Evaluation Software]→[Flash and PROM Programming]
- 5. Click [Flash Development Kit]
- 6. Finally, push **Download**



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New Year's Message
Koichi Nagasawa Chairman and CEO
Renesas Technology Corp.



Providing a global view into Renesas Technology's corporate information and products and services. Please check the appropriate regional site for product availability in your area.

3. Installation

- **Step 1: Install HEW3**
 - Un-ZIP package file. Then, execute setup.exe
- **Step 2: Install GNUH8**
 - Installer will find out HEW3. Then, it will register GNUH8 to HEW3 by tool chain, automatically.
- **Step 3: Install GDBH8**
 - Installer will find out HEW3. Then, it will register GDBH8 to HEW3 by tool chain, automatically.
- **Step 4: Install FDT3**
 - Execute Installer.

4. Additional Information

- **KPIT prepares tutorial document on web**
 - Please try ...
[Top]-[Documentation]-[Getting Started]-[Getting Started-HEW]
 - This document shows us “How to create project, and Debug on Simulator”.
- **HEW3 has tutorial document and manuals.**
 - HEW30\Manuals\Renesas\PDFs
- **H8/3664 Document for Programming**
 - Get “Hardware Manual” from Renesas Homepage
 - http://www.renesas.com/fmwk.jsp?cnt=Documentation.jsp&fp=/products/mpumcu/h8_family/h8300h_tiny_series/&title=Documentation&lid=165#Hardware%20Manual%20&%20Device%20User's%20Manual

Information from

- **1. 台灣 – 颯機器人專賣店 PlayRobot Store**
 - <http://www.playrobot.com>
 - 聯絡電話：02-28806977 (訂購電話亦同)
 - 任何技術詢問或緊急聯繫：0953-278-345 王先生
- **2. 日本 – SISO JUNK STUDIO / SISO-LAB**
 - <http://http://www11.plala.or.jp/siso/>
 - 發展特色：小型, 低成本, 高效率的人型機器人
 - 適用：日本ROBO-ONE人型機器人比賽，足/關節類機器人設計應用