

# H8TINY Development Environment

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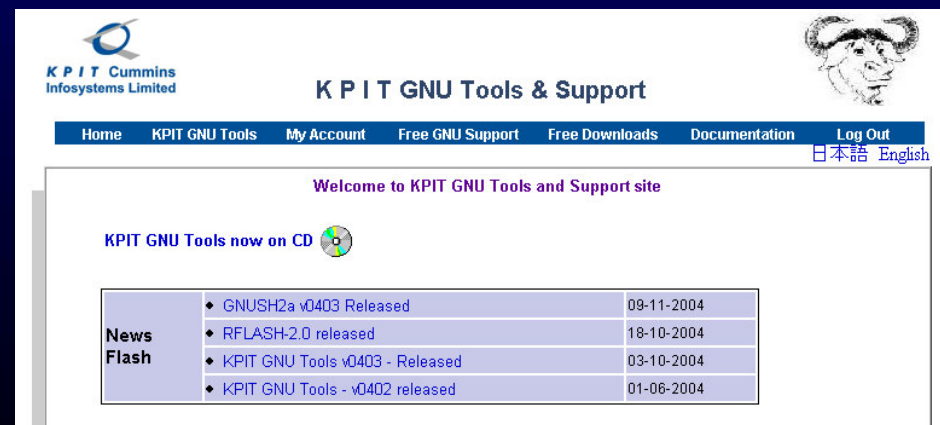
# 1. Free Development Environment

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 <sup>1/4</sup>

### ➤ Contact KPIT Homepage

- <http://www.kpitgnutools.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 <sup>2/4</sup>

### ➤ 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 <sup>3/4</sup>

### ➤ 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]

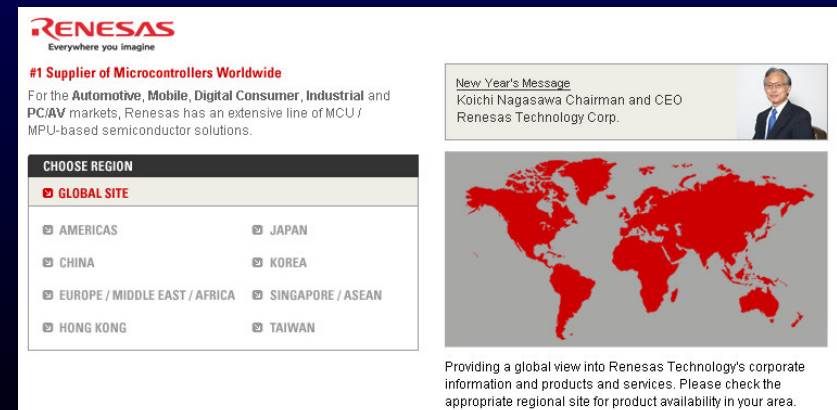
3. Download HEW3

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

## 2. How to Download <sup>4/4</sup>

### ➤ 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**



## 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](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 – 飊機器人專賣店 **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