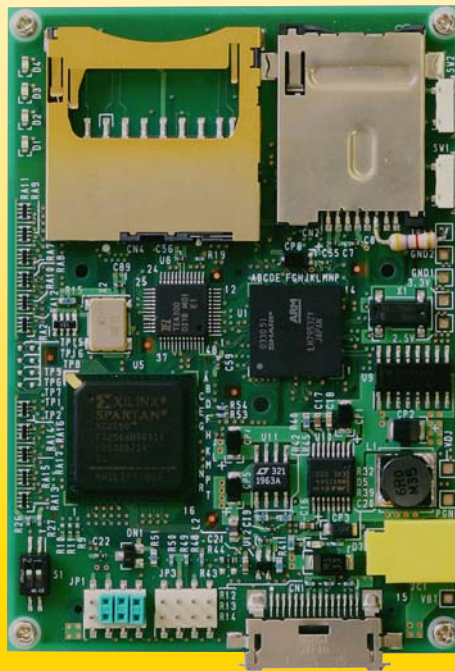


# μT-Engine/ARM7-LH79532 Development Kit

## An Open Development Platform for Embedded Systems



The CPU Board of the μT-Engine/ARM7-LH79532 Development kit (in full-scale)

If you have any questions, please feel free to contact us.  
E-mail: [te-sales@personal-media.co.jp](mailto:te-sales@personal-media.co.jp)

CPU Board	
CPU	SHARP LH79532 (ARM7TDMI, 50MHz)
Flash Memory	8 MB
SDRAM	16 MB
Input/Output I/F	Compact Flash (CF)card, Serial port, eTRON chip I/F, Multi Media card (MMC), Expansion bus I/F, LCD I/F, Touch Panel I/F
Others	RTC
Power Supply	AC adapter
Dimensions	60 mm x 85 mm (2.362 x 3.346 inch, excluding protrusions)

## PRODUCT SPECIFICATION

### Supplied Software

#### For T-Engine target board

- PMC T-Monitor
- PMC T-Kernel
- T-Kernel/OS, T-Kernel/SM, T-Kernel/DS
- PC card manager (bus driver)
- Device drivers: source code included
- Clock (RTC), console (serial), system disk (CF)
- Sample applications: source code included

#### Note:

- Customers are allowed to execute the above software on  $\mu$ T-Engine/ARM7-LH79532 Development Kit only. If the above software are executed on another hardware (or embedded in a final product), a separate license is required. Please contact us for further information.

#### For development machine

- GNU development environment with source code
- GNU based development environment running on PC-based Linux and Windows (Cygwin), including GDB source debugger.

### Main Package Details

- Hardware
  - $\mu$ T-Engine specification board with SHARP LH79532 (ARM7TDMI, 50MHz) (LCD board not included)
  - AC adapter
  - RS232C (serial) cable
- CD-ROM
  - T-Kernel and other software and various documentation
- Others
  - Packing list, Software License Agreement, etc.

### Optionals

#### T-Engine Development Bench (acrylic board)

#### Dedicated Connectors for Extension Bus of T-Engine/ $\mu$ T-Engine

#### LAN Extension Board for T-Engine/ARM

Drivers and TCP/IP software are not included.

#### Debugging board for T-Engine/ARM

A board to connect JTAG ICE

### System Requirements for GNU Development Environment

- PC/AT compatible Linux
  - Confirmed package: RedHat Linux 7.1 / 7.3 / 8.0 / 9.0, Red Hat Professional Workstation.
- Windows (Cygwin)
  - Confirmed package: Cygwin on Windows XP Professional

### Documentation

The following documentation are being supplied in electronic files:

- Development Kit User's Manual
- Library Manual
- Device Driver Manual
- T-Kernel Extension Manual
- GNU Development Environment Manual
- GNU Development Environment Manual (for Windows)
- T-Monitor Specification
- T-Kernel Specification
- T-Monitor/T-Kernel Implementation Specification
- Hardware User's Manual (circuit diagrams provided)

### Reference Books and Related Information

- T-Kernel Kumikomi Programing Kyokasho (A Practical Guide to T-Kernel Embedded Programing), Ken Sakamura (Ed.), 4200yen.
- T-Kernel Standard Handbook, Ken Sakamura (Ed.), 3800yen.
- \* English documents are included as PDF files on CD-ROM.
- T-Engine, T-Engine2, T-Engine3 (TRONWARE extra edition), 1600yen (each).
- TRONWARE Vol.1-109 (TRON bimonthly magazine, scheduled to be continued), 1200yen (ordinary issue).
- $\mu$ ITRON 4.0 Standard Guidebook, Ken Sakamura (Ed.), 3200yen.
- \* The above books are published by Personal Media Corporation in Japanese. Tax is not included.
- T-Engine Forum <http://www.t-engine.org/>
- TRON Project <http://www.tron.org/>
- Personal Media Corporation (T-Engine Solution Website) <http://www.t-engine4u.com/en/index.html>

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- For details and price, please contact us.

- TRON is an abbreviation of "The Real-time Operating System Nucleus".

- eTRON is an abbreviation of "entity and economy TRON".

- TRON, eTRON, T-Engine,  $\mu$ T-Engine, T-Monitor, and T-Kernel are specified terms for computers, and are not product names.

- All product names are trademarks or registered trademarks of their respective owners.

- Due to continued product upgrade or enhancement, the information in this document is subject to change without notice.

- T-Engine is an open, royalty-free specification, and not a commercial product.