Personal Media's Development Platform for Embedded Systems

T-Engine Solutions

- Porting service
- Licensing
- Customized software development
- Consulting & Support
- Alliances
- Publishing reference books
- Packaged products
- Technical seminars
- T-Engine
- T-Kernel 2.0
- mT-Kernel 2.0
Embedded Board with T-Kernel

Best Real-Time Controller for Industrial Equipments

Teacontroller

Incl. Board, OS, Drivers, HLS related software, Development environment

Best Embedded Board for Real-Time Control & Replacement of ITRON based Industrial Equipments

I-right®Engine

Incl. Board, OS, Drivers, ITRON API, Development environment

Reasonable Embedded Board for Running T-Kernel & TCP/IP

μTeaboard/ARM7-AT91

Incl. Board, OS, Drivers, Middleware, Development environment

Standard Price (Tax not included) 27,000yen
Expansion I/O Board Standard Price (Tax not included) 33,000yen

Real-Time OS for x86 : PMC T-Kernel 2/x86

Want to Give it a Try

T-Kernel 2/x86 Free Trial Version
You can use all the functions of “PMC T-Kernel 2/x86” for a free trial period of 30 days (available only for customers in Japan).

Want to Use Officially

T-Kernel 2/x86 Evaluation Kit
Development/evaluation package runs on PC/AT compatible boards

Standard Price (Tax not included) 90,000yen
* “Board with Development Environment for T-Kernel 2/x86” (T-Kernel 2/x86 Evaluation Kit + Board with x86 series CPU) is also available.

Want to Adopt for End Product

T-Kernel 2/x86 SDK with License
SDK with license for product commercialization
Unlimited copy licensing for the same project

1,200,000yen for Minimum Configuration
* For details of prices or optional parts, please contact Sales division.

Want to Have T-Kernel Cooperate with Windows

T-Kernel 2/RTH Evaluation Kit
Development/evaluation package supporting Real-Time Hypervisor for embedded systems

Standard Price (Tax not included) 90,000yen
* Real-Time Hypervisor itself is not included.

System configuration example

Windows

T-Kernel 2/RTH Evaluation Kit

PMC T-Kernel 2/x86
We offer porting of our T-Kernel related software to the CPU or hardware designated by customers.

**Porting Service of T-Kernel Related Software**

We regularly hold the paid technical seminars regarding T-Engine/T-Kernel. In addition to these, customized seminars are available on demand.

**Technical Seminars & Teaching Materials on Embedded Systems**

For those who want to learn more about the system development with T-Engine/T-Kernel, we provide the technical seminars and teaching materials for training.

**Technical Seminars**

We regularly hold the paid technical seminars regarding T-Engine/T-Kernel. In addition to these, customized seminars are available on demand.

**Teaching Materials on Embedded Systems**

**Real-Time OS Education & Training Package**

Ready-to-use teaching materials, CPU boards, OS and development environment for education/training of embedded real-time OS.

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**T-Kernel Related Software by Personal Media Corporation**

We provide the licenses of our T-Kernel related software. Depending on customers' end products, a variety of flexible licensing arrangements are available, including per-copy licensing for small-quantity production and unlimited copy licensing for mass production.

<table>
<thead>
<tr>
<th>OS</th>
<th>T-Kernel 2.0</th>
<th>μT-Kernel 2.0</th>
<th>T-Kernel 3.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middleware</td>
<td>T2EX</td>
<td>T-Kernel Extension</td>
<td>TCP/IP Manager</td>
</tr>
<tr>
<td>Device Drivers</td>
<td>System Disk</td>
<td>Serial</td>
<td>RTC</td>
</tr>
<tr>
<td>Development Environment</td>
<td>Eclipse for PMC T-Kernel</td>
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</tbody>
</table>

**T-Kernel Related Software**

We provide the porting service of our T-Kernel related software to the CPU or hardware designated by customers.

**PMC T-Kernel has already been ported to the following CPUs.**

<table>
<thead>
<tr>
<th>CPU Vendor</th>
<th>Architecture</th>
<th>CPU Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel, AMD, VIA, etc.</td>
<td>x86 (and compatibles)</td>
<td>Intel Atom, Core, Pentium, Celeron, AMD Athlon, Geode, VIA Eden, etc.</td>
</tr>
</tbody>
</table>

**Freescale Semiconductor**

- Cortex-A8: i.MX50
- ARM920T: MC9328MX1 (i.MX1)
- ARM926EJ-S: MC9328MX21 (i.MX21)

**Samsung**

- Cortex-A8: S5PC100, S5PC110

**FUJITSU**

- ARM926EJ-S: MB87Q1100

**NXP**

- ARM922T: LH7A400
- ARM720T: LH79520
- ARM7TDI: LH79532

**ATMEL**

- ARM7TDI: AT91M55800A

**CPU Vendor**

- EPSON
- Renesas Electronics
- TOSHIBA
- Marvell
- Xilinx
- ALTERA

**CPU Models**

- ARM720T: S1C38000
- ARM11: EMMA Mobile 1-D
- ARM- DSP: SH7727
- SH-4: SH7751R, SH7760
- SH-4A: SH7723, SH7775
- M32R: M32104
- MIPS: VR5500, VR5701A, VR4131
- V850: V850E/MA3
- MIPS: TX4956
- XScale: PXA270
- PowerPC: PowerPC 405 (Virtex-4)
- NiosII: NiosII
- NiosII (Cyclone)

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* We can port the software to the other 32-bit CPUs not listed in the above.
Personal Media Corporation has been aggressively supported the T-Engine project, an open development platform for embedded systems.

We offer assistance in every phase of your product development, from development focusing on the real-time OS "PMC T-Kernel" to technical support, and from sales to publication, through various solutions.

We provide One-Stop Service for T-Engine/T-Kernel, utilizing our advanced technologies and experiences gained from the involvement in TRON/T-Engine projects' history, and the close partnership with business partners.

**Distribution of T-Kernel Related Products**
We provide T-Kernel related products, ready-to-use for the development of embedded devices.

**Provision of T-Kernel Related Software Licenses**
We provide the licenses of our T-Kernel related software, depending on customers' end products.

**Porting Service**
We offer porting of our T-Kernel related software to the CPU or hardware designated by customers.

**Reference Books and Related Information**

<table>
<thead>
<tr>
<th>Book Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-Kernel Standard Handbook</td>
<td>Ken Sakamura (Ed.)</td>
</tr>
<tr>
<td>T-Kernel Kumikomi Programming Kyokasho</td>
<td>Ken Sakamura (Ed.)</td>
</tr>
<tr>
<td>Jissen TRON Kumikomi Programming</td>
<td>Ken Sakamura (Ed.)</td>
</tr>
<tr>
<td>TRONWARE (bimonthly magazine on TRON)</td>
<td></td>
</tr>
<tr>
<td>µITRON4.0 Standard Guidebook</td>
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</tbody>
</table>

All books and magazines listed above are written in Japanese, published by Personal Media Corporation.

* "T-Kernel Standard Handbook" is only available by Print-On-Demand (for customers in Japan). The other books and magazines are provided by printed books and ebooks.

**Technical Seminars & Teaching Materials on Embedded Systems**
For those who want to learn more about the system development with T-Engine/T-Kernel, we provide the technical seminars and teaching materials for training.

**Consulting & Support**
Besides the technical support for embedded software, we offer assistance in your business, including planning new products, marketing and promotions.

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