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
- T-Clue 2.0
- μT-Xkernel 2.0
- T-Engine 4U
Embedded Board with T-Kernel

Reference Board for Running µT-Kernel 2.0 and T-Kernel 2.0, Certified by T-Engine Forum

T2&µT2 Reference Kit
Incl. Board, OS, Drivers, Middleware, Development environment

Standard Price (Tax not included) 85,000 yen

Reasonable Embedded Board for Running µT-Kernel 2.0 & TCP/IP

µTeaboard 2.0
Incl. Board, OS, Drivers, Middleware, Development environment

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

Best Real-Time Controller for Industrial Equipments

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

With Touch Panel LCD Standard Price (Tax not included) 85,000 yen
Without Touch Panel LCD Standard Price (Tax not included) 65,000 yen

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) 90,000 yen
* "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 Unlimted copy licensing for the same project
1,200,000 yen 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) 90,000 yen
* Real-Time Hypervisor itself is not included.

System configuration example
Porting Service of T-Kernel Related Software

We offer porting 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, Architecture</th>
<th>CPU Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel, AMD, VIA, etc.</td>
<td>x86 (and compatibles) Intel Atom, Core, Pentium, Celeron, AMD Athlon, Geode, VIA Eden, etc.</td>
</tr>
<tr>
<td>Freescale Semiconductor</td>
<td>Cortex-A8 i.MX50 ARM920T MC9328MX1 (i.MX1) ARM926EJ-S MC9328MX21 (i.MX21)</td>
</tr>
<tr>
<td>Samsung</td>
<td>Cortex-A8 S5PC100, S5PC110</td>
</tr>
<tr>
<td>FUJITSU</td>
<td>ARM926EJ-S MB87Q1100</td>
</tr>
<tr>
<td>NXP</td>
<td>ARM922T LH7A400 ARM720T LH79520 ARM7TDMI LH79532</td>
</tr>
<tr>
<td>ATMEIL</td>
<td>ARM7TDMI AT91M55800A</td>
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<tr>
<td>EPSON</td>
<td>ARM720T</td>
<td>S1C38000</td>
</tr>
<tr>
<td>Renesas Electronics</td>
<td>ARM11</td>
<td>EMMA Mobile 1-D</td>
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<tr>
<td></td>
<td>SH3-DSP</td>
<td>SH7727</td>
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<td></td>
<td>SH-4</td>
<td>SH7751R, SH7760</td>
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<td></td>
<td>SH-4A</td>
<td>SH7723, SH7775, SH7763</td>
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<tr>
<td></td>
<td>M32R</td>
<td>M32104</td>
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<tr>
<td></td>
<td>MIPS</td>
<td>VR5500, VR5701A, VR4131</td>
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<tr>
<td></td>
<td>V850</td>
<td>V850E/MA3</td>
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<tr>
<td>TOSHIBA</td>
<td>MIPS</td>
<td>TX4956</td>
</tr>
<tr>
<td>Marvell</td>
<td>XScale</td>
<td>PXA270</td>
</tr>
<tr>
<td>Xilinux</td>
<td>PowerPC</td>
<td>PowerPC 405 (Virtex-4)</td>
</tr>
<tr>
<td>ALTERA</td>
<td>NiosII</td>
<td>NiosII (Cyclone)</td>
</tr>
</tbody>
</table>

* We can port the software to the other 32-bit CPUs not listed in the above.

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>
</tr>
</thead>
<tbody>
<tr>
<td>Middleware</td>
<td>T2EX</td>
<td>T-Kernel Extension</td>
</tr>
<tr>
<td>Device Drivers</td>
<td>System Disk</td>
<td>Serial</td>
</tr>
</tbody>
</table>

Development Environment | Eclipse for PMC T-Kernel |

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.
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.

### 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.

### Reference Books and Related Information
- **T-Kernel Standard Handbook** Ken Sakamura (Ed.)
- **T-Kernel Kumikomi Programming Kyokasho (A Practical Guide to T-Kernel Embedded Programming)** Ken Sakamura (Ed.)
- **TRONWARE (bimonthly magazine on TRON)**
- **µITRON4.0 Standard Guidebook**

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.*