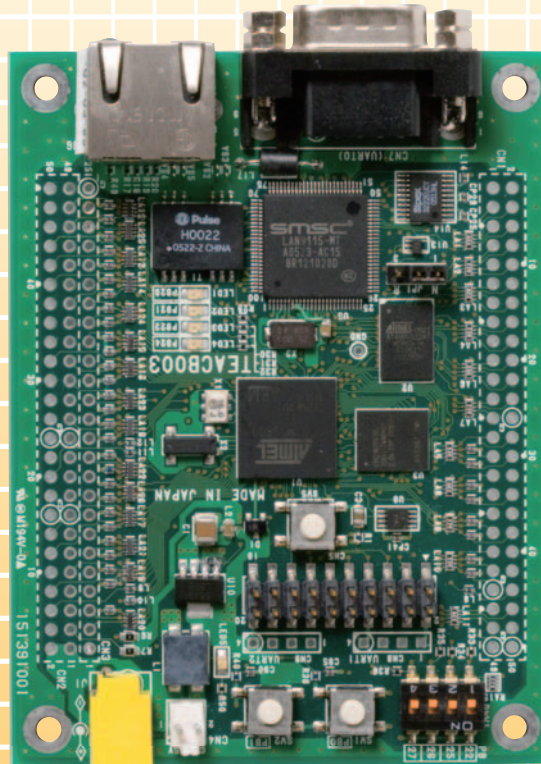


μTeaboard/ARM7-AT91

Low-Priced T-Engine Appliance



The CPU Board of the μTeaboard/ARM7-AT91 (in full-scale)

Features and uses of μTeaboard/ARM7-AT91

- μTeaboard/ARM7-AT91 is the low-priced T-Engine appliance board.
- If you need the low-priced delivery board or the development environment for every engineer, μTeaboard/ARM7-AT91 is the best.
- μTeaboard/ARM7-AT91 has a variety of functions. For example, Network functions such as LAN and TCP/IP, I/O functions such as GPIO and SERIAL PORT are already equipped.
- Basic software, such as PMC T-Kernel, and PMC T-Monitor, go along with μTeaboard/ARM7-AT91.
- μTeaboard/ARM7-AT91 is a RoHS Directive compliant product.

Product Makeup

Hardware specifications of μTeaboard/ARM7-AT91

CPU	Atmel ARM7 AT91M55800A (ARM7TDMI 33MHz)
Flash memory	4MB
RAM	2MB + 8KB (on CPU)
I/F (throughhole)	Serial (D-sub 9pin) x 1, UART x 3, SPI x 4, TIMER x 6, PWM x 4, ADC x 8, DAC x 2, GPIO, 10/100Base-T, JTAG ICE I/F x 1
Switch	Dip switch x 4, Push switch x 2, LED x 4,
PowerSupply	AC adapter (5V 300mA) *option
Size	95 x 72 mm (height) 3.74 x 2.84 inch (height)

Supplied Software

For μTeaboard/ARM7-AT91

- PMC T-Monitor
- PMC T-Kernel (T-Kernel/OS,T-Kernel/SM, T-Kernel/DS)
- TCP/IP
- CLI (Command Line Interpreter)
- Sample applications

Note:

- Customers are allowed to execute the above software on μTeaboard/ARM7-AT91 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.
- GNU C/C++ compiler
- GDB (source-level debugger)
- ANCI C library, T-Kernel related library etc...
- GUI integrated development environment: Eclipse for PMC T-Kernel (Free download for the registered user)

Documentation

The following documentation are being supplied in electronic files:

- Teaboard User's Manual
- Library Manual
- Device Driver Manual
- T-Kernel Extension Manual
- GNU Development Environment Manual (for Windows)
- 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)

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

Optionals

- **PARTNER series**
Kyoto Micro Computer Co.,Ltd.'s JTAG ICE
- **μTeaboard AC adapter**

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).
- μITRON 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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- TRON is an abbreviation of "The Real-time Operating System Nucleus".
- eTRON is an abbreviation of "entity and economy TRON".
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