OVERVIEW

The TS-7400 is a compact computer module (System-On-Module) based upon the Cirrus EP9302 ARM9 CPU, which provides a standard set of on-board peripherals. The EP9302 features an advanced ARM920T 200 MHz processor design with MMU.

The TS-7400 includes a standard SD Card socket and a 40-pin header that brings out many interfaces, including audio, GPIO and ADC. In addition, an one-piece setup with 802.11g WIFI integrated inside a rugged enclosure is available, making this solution ideal for use in wireless sensor network, data acquisition/recorder applications, PoS, vehicle telemetry transmitter units, etc.

1.1s ULTRA-FAST BOOTUP

The TS-7400 has a tweaked bootup firmware and Kernel that, along with the hardware accelerated NAND controller and hardware ECC, enables ultra-fast bootup to a Linux shell prompt in 1.1 seconds.

FEATURES

- 200MHz ARM9 CPU with MMU
- Boots Linux out-of-the-box in 1.1 seconds
- Linux Bootloader (Linux boots Linux)
- TS-Linux Embedded Operating System Installed
- 32 MB SDRAM (64 MB or 128 MB optional)
- 32 MB on-board NAND Flash (128 MB optional)
- 1 SD Card socket - up to 4 GB Cards
- 1 10/100 Ethernet port
- 2 USB 2.0 Compatible OHCI ports (12 Mbit/s Max)
- 40-pin header provides 3 TTL COM ports, 4 A/D channels, 20 DIO, AC97/12S audio, SPI bus
- Watchdog timer
- Fanless -40° to +70°C, +85°C w/ CPU@166Mhz
- Optional On-Board Temperature Sensor
- Optional Battery Backed Real Time Clock (RTC)
- Optional Linux-supported USB 802.11g WiFi
- RoHS Compliant
- Small size: 2.9 x 4.7 inches
- TS-9441 Peripheral Board for development
- Visit TS-7400 webpage for further information

LINUX FOR ARM

TS-7400 SoM includes TS-Linux embedded OS for ARM installed by default in Flash memory. Debian Linux can also be used with larger Flash drives. Both are full featured real-time capable Linux systems.

DEVELOPMENT KIT

The TS-ARM Development Kit includes the Debian Linux on a 512 MB Flash drive, all the documentation, a CD with Linux Kernel and application source codes, a power supply, and various cables and connectors.

TS-WIFIBOX APP KIT

We provide a one-piece setup with TS-7400 controller, Hammond Manufacturing aluminum enclosure, internal 802.11g WiFi card integrated and end-plates which bring out 1 ethernet, 1 USB, 2 LEDs, power input and external antenna, as shown.

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