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.

$99
qty100

$129
qty1

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/I2S **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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