

Technologic Systems

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www.embeddedARM.com**TS-SOCKET MACROCONTROLLERS**

JUMP START YOUR EMBEDDED SYSTEM DESIGN

The TS-SOCKET Macrocontrollers are a series of embedded computers based on the TS-SOCKET connector standard. These CPU core modules securely connect to your custom baseboard, enabling drastically reduced design time and complexity. Start your embedded system design around one of our TS-SOCKET Macrocontrollers to reduce your overall project risk and accelerate time to market.

TS-SOCKET MACROCONTROLLER STANDARD

TS-SOCKET is an embedded computer standard designed and controlled by Technologic Systems, Inc. It defines both a form factor and a connection pin-out and is based on two 100-pin low-profile connectors, allowing secure connection between a Macrocontroller and a baseboard.

A TS-SOCKET Macrocontroller is an embedded CPU board that implements the TS-SOCKET specification. The form factor is 75mm x 55mm, about the size of a credit card. In addition to two 100-pin off-board male connectors, a TS-SOCKET Macrocontroller features CPU, RAM, NAND Flash, SD card socket, Ethernet MAC/PHY and requires a single 5V power source. Peripherals can include USB host and device, SATA, CAN, GPDIO, external bus, video, touchscreen, audio, SPI and UART. All parts are soldered on and no moving parts are not used, ensuring embedded ruggedness and reliability.

A TS-SOCKET baseboard can be any piece of hardware, supplied by the customer or Technologic Systems, that interfaces with a Macrocontroller through the dual TS-SOCKET standard connectors.

INEXPENSIVE CUSTOM DESIGNS, FAST TIME-TO-MARKET

All TS-SOCKET Macrocontrollers will be designed with a common pin-out, which means that they are interchangeable. This will give our customers more options and flexibility when selecting an embedded system, since a baseboard can be used with multiple macrocontrollers. As an application example, a baseboard designed to provide video and touchscreen functionality can have its CPU easily upgraded to improve video playback performance or later as a second generation upgrade. Lower design costs and faster time-to-market directly result from the TS-SOCKET board interchangeability feature because the standardization significantly reduces design complexity.



FEATURES

- › 75mm x 55mm (credit card sized)
- › Dual 100-pin connectors
- › Secure connection with mounting holes
- › Common pin-out interface
- › Low profile with 6mm spacing

BENEFITS

- › Simplifies custom embedded systems
- › Rapid design process gets products to market faster
- › Several COTS baseboards for evaluation and development
- › Design your own baseboard or use our design services
- › Macrocontrollers are interchangeable for future upgrades

TS-SOCKET MACROCONTROLLER PROJECTS

- › TS-4200: Atmel ARM9 with super low power
- › TS-4300: Cavium ARM11 with dual 600 MHz and FPU
- › TS-4500: Cavium ARM9 at extremely low cost
- › TS-4700: Marvell PXA168 with video and 1.0 GHz CPU
- › TS-4800: Freescale iMX515 with video and 800 MHz CPU

PRICE AND AVAILABILITY

- › The TS-4200 and TS-4500 are available now. The TS-4800 is planned to be released along with a Touch Panel Computer baseboard. Prices start at \$92 at quantity 100.