

TMP92CD28AFG

32-bit microcontroller with USB host controller

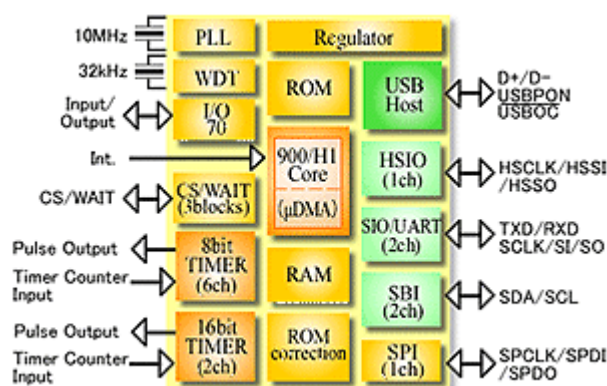
Features

TLCS-900/H1 CPU Core

- ▶ Operating voltage
Internal = 1.4 to 1.6 V
I/O = 3.0 to 3.6 V
- ▶ Minimum instruction execution time
50 ns (at 20 MHz internal)

Built-in Functions

- ▶ USB Host controller : 1 channel
- ▶ UART/SIO : 2 channels
- ▶ SBI : 2 channels
- ▶ HSIO : 1 channel
- ▶ SPI : 1 channel
- ▶ 8-bit timer : 6 channels
- ▶ 16-bit timer : 2 channels
- ▶ Key-on wake-up : 4 channels
- ▶ Program patch logic : 8 banks



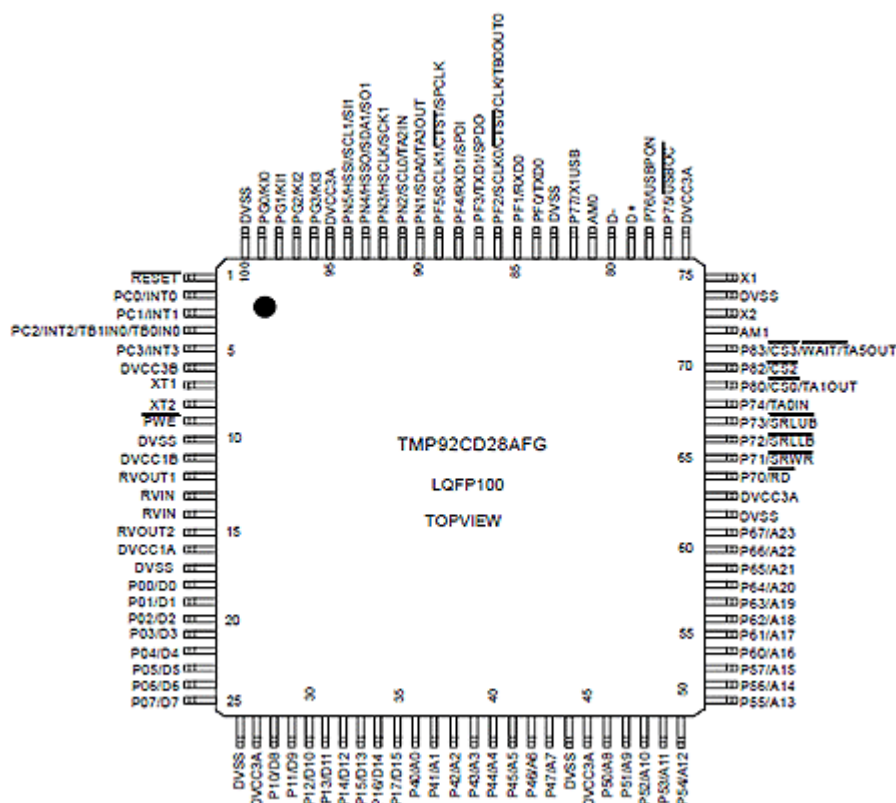
Memory Size

Part number	ROM	RAM
TMP92CD28AFG	512 Kbytes	32 Kbytes

*Products with flash memory are also available.

Package Information

Pin Assignments



Development Systems

Software Products

Toshiba Integrated Development Environment	C Compiler	SW96CN0-ZCC: 1 license SW96CN3-ZCC: 10 licenses
	Integrated Development Environment	SW00MN0-ZCC: 1 license SW00MN3-ZCC: 10 licenses The controller comes with a single-seat download license.
Real-Time OS (μ ITRON 3.0)		SW96RN2-ZCC: Object code can be freely copied SW96RNC-ZCC: Object code can be freely copied. With source code.

Hardware Products Emulator

model 25 system	Controller	BM1055R0C
	Emulation pod	BM92CD28F0A-GM
model 15 system	Controller	BM1040R0B-G
	Emulation pod	BM92CD28F0A-GM

* Select either model 25 system or model 15 system.

* As to hardware products, additional accessories are also needed.

» For further information about Toshiba microcomputers and Toshiba microcomputer development systems, please visit <http://www.semicon.toshiba.co.jp/eng/product/micro/index.html>

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