TOSHIBA
Leading Innovation

July 2008

8bit | TLCS-870 Family TLCS-870/C1 Series | 44pin

TMP89FH42UG
TMP89FM42UG

FLASH

8-bit microcontrollers delivering high functionality and performance in low-pin-count packages

Features

TLCS-870/C1 CPU Core

·Operating voltage
4.3 to 5.5 V at 10 MHz
2.7 to 5.5 V at 4.2 MHz
2.2 to 5.5 V at 2 MHz

·Clock gear
1/4, 1/2, 1/1

Built-in Functions

·Voltage detecting circuit
(Two voltage levels detectable, reset or interrupt selectable)

·Power-on reset circuit

·10-bit AD converter : 8 channels

·8-bit timer : 4 channels

·16-bit timer : 2 channels

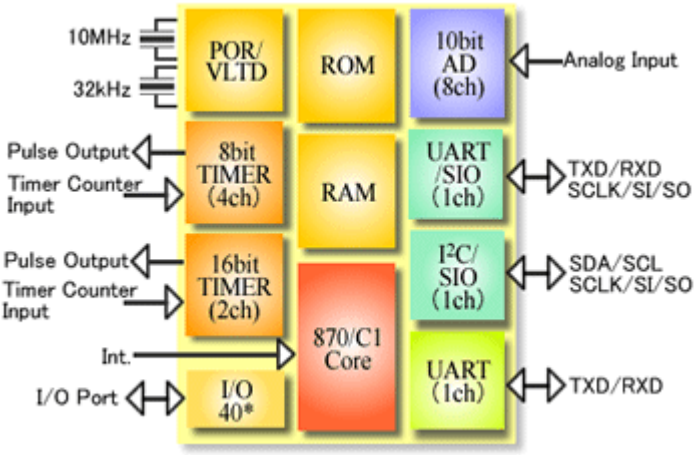
·UART/SIO : 1 channel

·UART : 1 channel

·I²C/SIO : 1 channel
(One SIO channel can be used at a time.)

·Built-in pull-up resistors

·On-chip debug function (Flash version only)



*:Two pins are used for high-frequency oscillation and cannot be used as input/output ports.

Flash Memory Size

Part number	ROM(Flash)	RAM
TMP89FH42UG	16 Kbytes	2 Kbytes
TMP89FM42UG	32 Kbytes	2 Kbytes

Product Lineup

Part number	ROM	RAM
TMP89CH42UG	16 Kbytes	2 Kbytes
TMP89CM42UG	32 Kbytes	2 Kbytes

Development Systems

Software Products

Toshiba Integrated Development Environment	C Compiler	SW89CN0-ZCC: 1 license SW89CN3-ZCC: 10 licenses
	Integrated Development Environment	SW00MN0-ZCC: 1 license SW00MN3-ZCC: 10 licenses The emulator comes with a single-seat download license.

Hardware Products

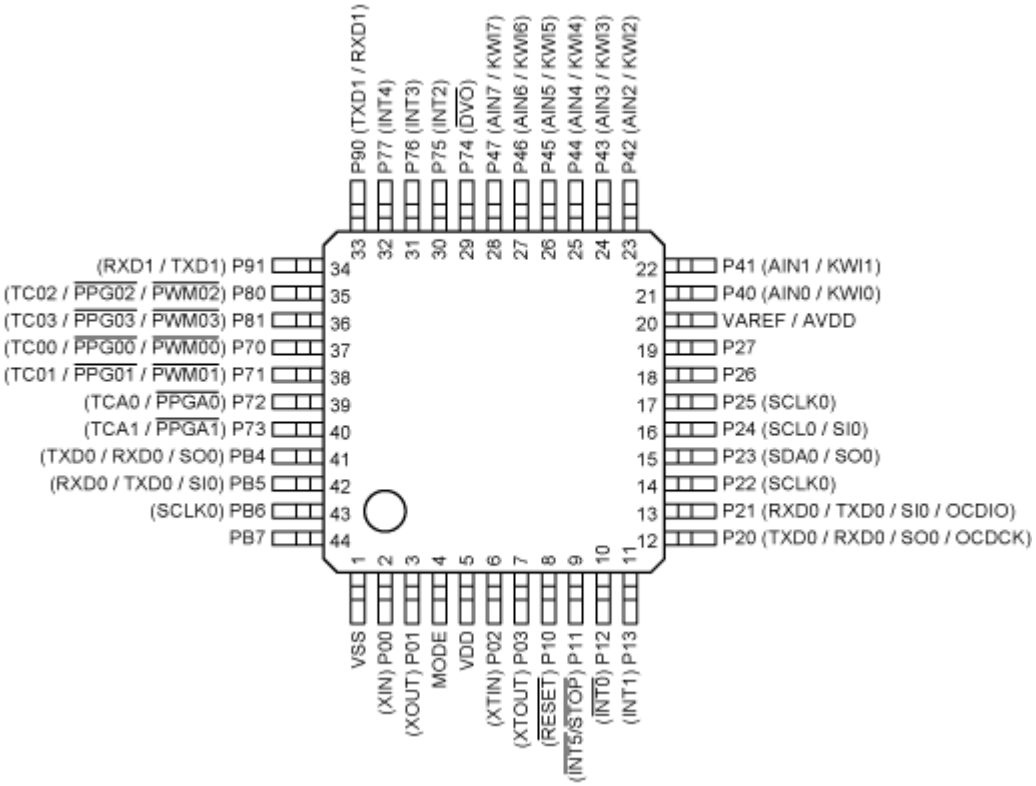
**:Under development

On-Chip Debug Emulator	Emulator	BMP89A400010A-G
In-Circuit Emulator	Emulator	BMP89A300010A-G
	Emulation chip	TMP89C900XBG**

› Use either an On-Chip Debug Emulator or an In-Circuit Emulator.
› 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
» Contact the Toshiba sales representative for information about RoHS compliance before you purchase any components.

Pin Assignments



Package name: LQFP44-P-1010-0.80B

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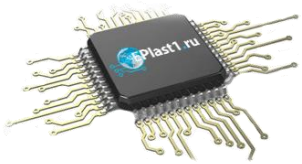
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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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