TOSHIBA

September 2005

8bit | TLCS-870 Family TLCS-870/C Series

TMP86FM25FG

FLASH | 100pin

8-bit microcontroller with dot-matrix LCD driver supporting 960 pixels

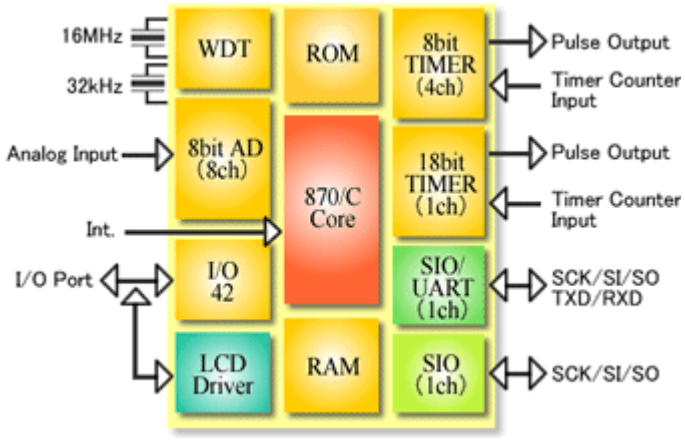
Features

TLCS-870/C CPU Core

·Operating voltage:
1.8 to 3.6 V
·Minimum instruction execution time:
250 ns (at 16 MHz /2.7 to 3.6 V)
500 ns (at 8 MHz/ 1.8 V to 3.6 V)
·Internal ROM: 32 Kbytes
·Internal RAM: 2 Kbytes

Built-in Functions

·LCD driver (booster type) : 60 seg.×16 com.
·8-bit AD converter : 8 channels
·SIO/UART : 1 channel
·SIO : 1 channel
·8-bit timer : 4 channels
·18-bit timer : 1 channel
·Key-on wake-up : 4 channels



Product Lineup

Part number	ROM	RAM
TMP86CM25AFG	32 Kbytes	2 Kbytes

* The part number suffix "G" denotes a lead-free product. For some products, lead-free alternatives may not be available yet. Please consult us about this point before placing an order for Toshiba products.

› For further information about Toshiba microcomputers, please visit http://www.semicon.toshiba.co.jp/eng/prd/micro/index.html.

Development Systems

Software Products

Language Tool	Test Tool (Debugger)	
C Compiler & Assembler Set	RTE model15	RTE 870/C Light
SW86YN0-ZCF: 1 license	SW86DN9-ZCE: 1 license	Each emulator purchaser is entitled to a free download.
SW86YN3-ZCF: 10 licenses	SW86DN3-ZCE: 10 licenses	

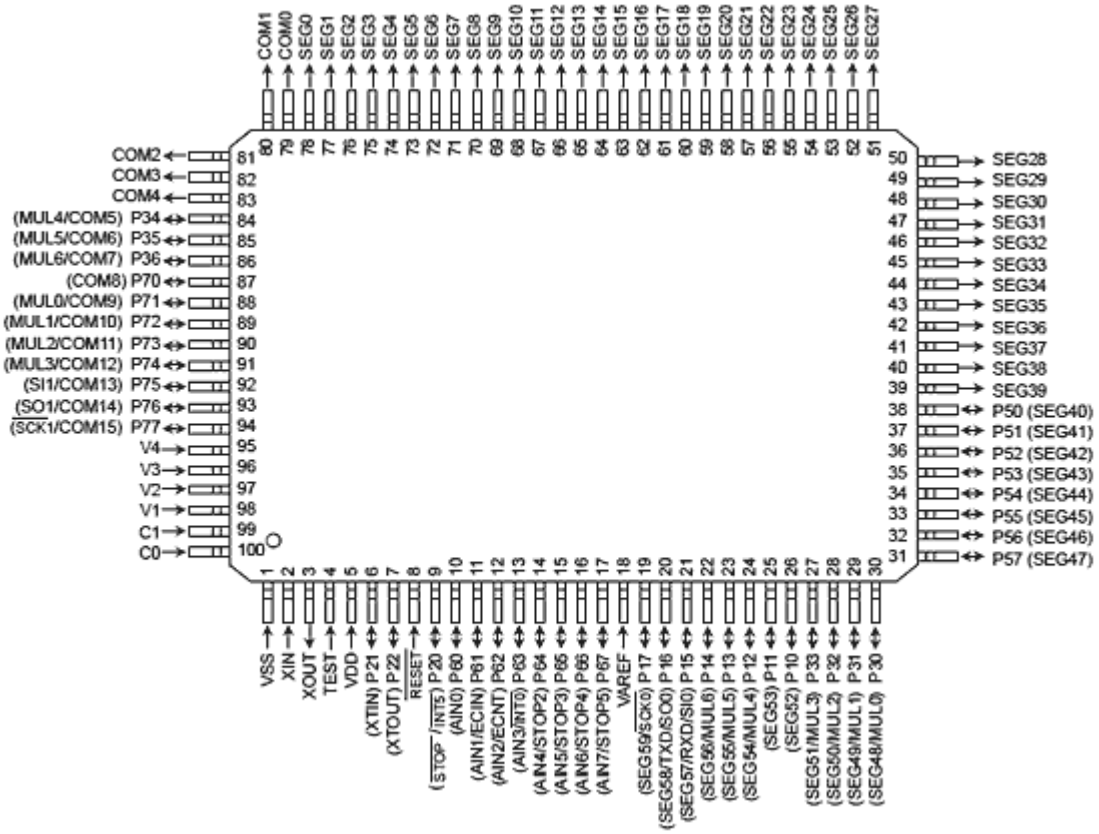
Hardware Products

****Under development**

Part number	Test Tool <Select either RTE model15 or RTE 870/C Light.>					
	Emulation chip	RTE model15				RTE 870/C Light
		Controller	Interface module	Emulation module	Target connect board	Emulator
TMP86FM25FG	TMP86C925XB**	BM1040R0A	BMP86A100010B	BMP86A200020A	BMP86D100FF0A	BMP86A300020A

›As to hardware products, additional accessories are also needed.
› For further information about Toshiba microcomputer development systems, please visit http://www.semicon.toshiba.co.jp/mctool/index_e.htm.

Pin Assignments



Package name P-QFP100-1420-0.65A

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