



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

Features

• TLCS-870/C C • Operating voltage: 1.8 to 3.6 V	CPU	U Core	16MHz € 32kHz €	WDT	ROM	8bit TIMER (4ch)	Pulse Output
 ·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 			Analog Input ——>	8bit AD (8ch)	870/C Core	18bit TIMER (1ch)	Pulse Output
•Internal RAM: 2 Kbytes Built-in Functions			I/O Port	1/O 42		SIO/ UART (1ch)	
·LCD driver (booster type)	:	60 seg.×16 com.	Lo	LCD Driver	RAM	SIO (1ch)	↓ → scк/si/so
·8-bit AD converter	:	8 channels		_			
·SIO/UART	:	1 channel	Product I	Lineup			
·SIO	:	1 channel	Part number	r	ROM	1	RAM
·8-bit timer	•	4 channels	TMP86CM25AFG		32 Kby	tes	2 Kbytes
·18-bit timer	:	1 channel					
·Key-on wake-up	:	4 channels					

* 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.

 $> For \ further \ information \ about \ To shiba \ microcomputers, \ please \ visit \ http://www.semicon.to shiba.co.jp/eng/prd/micro/index.html.$

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		
SW86YN3-ZCF: 10 licenses	SW86DN3-ZCE: 10 licenses	a free download.		

Hardware Products

Part number	Test Tool <select 870="" c="" either="" light.="" model15="" or="" rte=""></select>									
	Envelation akin		RTE 870/C Light							
	Emulation cmp	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.

****Under development**

Package Information

Pin Assignments



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