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TMP89FS60AEFG

TLCS-870C1

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Description

Description	Products based on the 8-bit CPU core with various communication functions and 10-bit AD converter
RoHS Compatible Product(s) (#)	Available

Flash memory uses SuperFlash® technology licensed from Silicon Storage Technology (SST), Inc. SuperFlash® is a registered trademark of SST, Inc.

Properties

Package Information

Toshiba Package Name	QFP64-P-1414-0.80A
Pins	64

Description

Property	Value	Unit
number of bits	8	bit
ROM size	60	Kbyte
ROM type	Flash	-
RAM size	3	Kbyte
internal data bus width	8	bit
LED drive capability	8	ch
UART	1	ch
UART/SIO	2	ch
I^2C/SIO	1	ch
A/D converters(10bit)	16	ch
Timer/counter(16bit)	2	ch
Timer/counter(8bit)	4	ch
Interrupt controllers	6	pins
watchdog timer	Available	-
dual clock operation	Available	-
Clock gear function	Available	-
Power-on reset circuit	Available	-
Voltage detecting circuit	Available	-
On-chip debug function	Available	-
I/O Port	58	port

The minimum instruction execution time in low-speed dual clock operation mode is 122μs (at 32.768kHz).
Configurable as UART or SIO. Also, selectable from I2C and SIO. Two SIO channels can be used simultaneously.
Two ports are reserved for high-speed oscillator pins and cannot be used as I/O ports.

Supply Voltage (V)	Operation Frequency (MHz)	Operating Temp (degC)	Minimum instructio execution time (μse
4.3 to 5.5	0.25 to 10	-40 to 85	0.1
2.7 to 5.5	0.25 to 4.2	-40 to 85	0.238

Development Systems

- TLCS-870/C1 Series Development System TMP89FS60AEFG

Manuals Common to All TLCS-870C1 Series Components

TLCS-870/C1 CPU (PDF: 380KB)
TLCS-870/C1 Series Instruction Set (PDF: 4227KB)
Postscript (PDF: 111KB)

Document

Environment Information	Certificate Regarding EU RoHS(2011/65/EU)Controlled Substances[Nov,2016] UPDATED	(PDF: 52KB)
Environment Information	Certificate on Content of SVHC of REACH[Nov,2016] UPDATED	(PDF: 43KB)

Related Links

- Evaluation Kits and Reference Boards
- Application Notes / Sample Program
- Partner Information

Inquiries on our product

- Contact Us

For product delivery, additional characters will be added to the part numbers shown on this website. For details, please ask your local distributor, or send an inquiry accessed from "Contact Us" on this website.

Notes

- The Part Number column shows representative part numbers only, which may not be available for sale in the precise form shown. Each Part Number constitutes a product family which may contain multiple associated product configurations.
  (#) Under the RoHS Compatible Product(s) column, "Available" means at least one RoHS-Compatible product is available for sale in the corresponding product family. "None" means no RoHS Compatible product is available in that product family.
  For Toshiba's definitions of concepts related to the RoHS Directive and RoHS Compatibility, please click here.
  The RoHS compatibility information provided herein is to the best of Toshiba's knowledge and belief accurate as of the date Toshiba entered the information into this database. Information is subject to change at any time without notice.
  Please contact your Toshiba sales representative for detailed environmental information about each specific part number or product, such as RoHS compatibility or material content. Please use Toshiba products only in compliance with all applicable laws and regulations concerning the inclusion or use of controlled substances, including without limitation the RoHS Directive.**TOSHIBA ASSUMES NO LIABILITY FOR DAMAGES OR LOSSES OCCURRING AS A RESULT OF NONCOMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS.**
- Reliability data are provided for your reference only, please contact your Toshiba sales representative for detailed reliability information about each part number.

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