FUJITSU SEMICONDUCTOR INTRODUCTION SHEET



NP07-12636-1E

8-bit Microcontrollers MB95280H Series

MB95280H is 8-bit low-pin-count microcontroller series that has "Easy to use" as a product concept.

This series has the function that is enough for the control of various small scale systems such as electric home appliance. And can be used as sub-microcontroller for function addition in the cause of the specification change.

FEATURES

• F²MC-8FX CPU

- Instruction set optimized for controllers
- Clock
 - Maximum clock frequency: 16.25MHz
- 8/16-bit composite timer case for 8-bit timer : 2 channels case for 16-bit timer : 1 channels
- Timebase timer : 1 channel
- Watch prescaler : 1 channel
- External interrupt : 6 channels
 - Interrupt by edge detection
 - Can be used to wake up the device from different low power consumption (standby) modes
- 8/10-bit A/D converter : 5 channels
- Low power consumption (standby) modes
 - Stop mode
 - Sleep mode
 - Watch mode
 - Time-base timer mode
- I/O port
 - MB95F282K/F283K/F284K : 13 MB95F282H/F283H/F284H : 12
- On-chip debug
 - 1-wire serial control
 - Serial writing supported (asynchronous mode)
- Low-voltage detection reset circuit MB95F282K/F283K/F284K
- Clock supervisor counter
- Dual operation Flash memory
- Flash memory security function
- Power supply : 2.4~5.5V
 - *The range of the power supply voltage is different according to the operating frequency and the operating temperature.



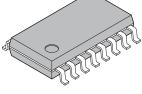
■PRODUCT LINEUP

Part number Parameter	MB95F 282H	MB95F 283H	MB95F 284H	MB95F 282K	MB95F 283K	MB95F 284K
Туре	Flash memory product					
ROM (Byte)	8K	12K	20K	8K	12K	20K
RAM (Byte)	240	496		240	496	
Low-voltage detection reset	No		Yes			

■ORDERING INFORMATION

Product name	Package	Remarks
MB95F282HWQN MB95F282KWQN MB95F283HWQN MB95F283KWQN MB95F284HWQN MB95F284KWQN	Plastic・QFN,32-pins (LCC-32P-M19) 5.00mm□,0.50mm pitch	_
MB95F282HPH MB95F282KPH MB95F283HPH MB95F283KPH MB95F284HPH MB95F284HPH MB95F284KPH	Plastic • DIP, 16-pins (DIP-16P-MO6) 19.55mm×6.35mm, 2.54mm pitch	_
MB95F282HPF MB95F282KPF MB95F283HPF MB95F283KPF MB95F283KPF MB95F284HPF MB95F284KPF	Plastic • SOP, 16-pins (FPT-16P-MO6) 5.30mm×10.15mm, 1.27mm pitch	_

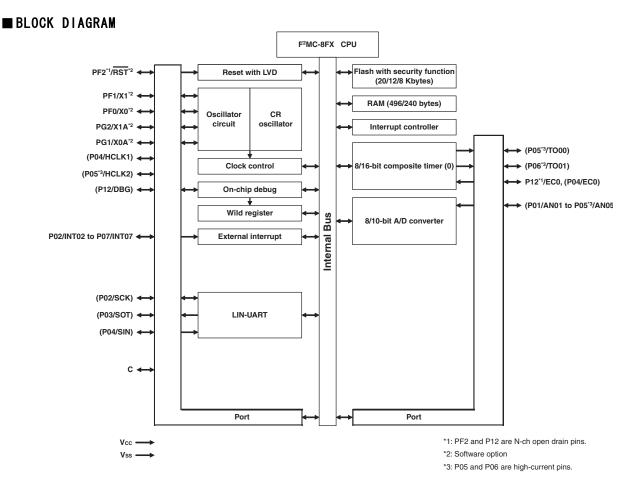
■ PACKAGE EXAMPLE OF REFERENCE



Plastic • SOP, 16-pins (FPT-16P-M06)



MB95280H Series



SUPPORT TOOL

HARDWARE

	Name	Part Number	Remarks	
	BGM adapter	MB2146-08-E	For F ² MC-8FX MB95200 series	
	PC cable	USB cable	Attached to MB2146-08-E, 1.0m	

• SOFTWARE

Software	Part Number	Operating System	
SOFTUNE V3 Professional Pack	SP36503Z008-P01	Windows2000/XP/Vista	

• FLASH MICROCONTROLLER PROGRAMMER

Name	Remarks		
Parallel programmer	Made by Flash Support Group,		
	Hi-Lo Systems, Data I/O, etc.		
Serial on board programmer	FUJITSU FLASH MCU Programmer		

STARTER KIT

We can provide the STARTER KIT that can easily do the product evaluation and the program development of MB95200 series.

- The kit includes
 - BGM adapter
 - Evaluation board
 - USB cable (for connecting BGM adapter and PC)
 - Document and sample program (CD-ROM)



STARTER KIT MB2146-420A-01-E