

NP07-12631-1E

# 8-bit Microcontrollers MB95350L Series

The MB95350L is a series of general–purpose, single–chip microcontrollers. In addition to a compact instruction set, the microcontrollers of this series contain a variety of peripheral resources for example 2 channels  $I^2C$ . This can be used for the Security sensors, Toys, Heater detector applications which need more communication ports application etc.



#### **■ FEATURES**

#### F<sup>2</sup>MC-8FX CPU

Instruction set optimized for controllers

#### Clock

Maximum clock frequency: 16.25MHz

#### • Timer

8/16-bit composite timer: 2 channels Time-base timer: 1 channels

#### • UART/SIO

1 channel (alternative selection between I<sup>2</sup>C and UART/SIO)

#### • 12C

1 channel

[+ 1 channel(alternative selection between I2C and UART/SIO)]

# • LIN/UART: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 : 6 channels

# Low power consumption (standby) modes

Stop mode Sleep mode

Watch mode

Time-base timer mode

# • I/O port

MB95F352E/F353E/F354E : 22 MB95F352L/F353L/F354L : 21

## • On-chip debug

- 1-wire serial control
- Serial writing supported (asynchronous mode)

#### Hardware/software watchdog timer

- Low-voltage detection reset circuit MB95F352E/F353E/F354E
- Clock supervisor counter
- Dual operation Flash memory
- Flash memory security function
- Power supply: 1.8~3.6V
  - \*The range of the power supply voltage is different according to the operating frequency and the operating temperature.

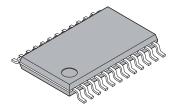
# ■PRODUCT LINEUP

Part number Parameter	MB95F 352E	MB95F 353E	MB95F 354E	MB95F 282L	MB95F 283L	MB95F 284L
Type	Flash memory product					
ROM (Byte)	8K	12K	20K	8K	12K	20K
RAM (Byte)	240	49	96	240	49	96
Low-voltage detection reset	Yes		No			

#### **■**ORDERING INFORMATION

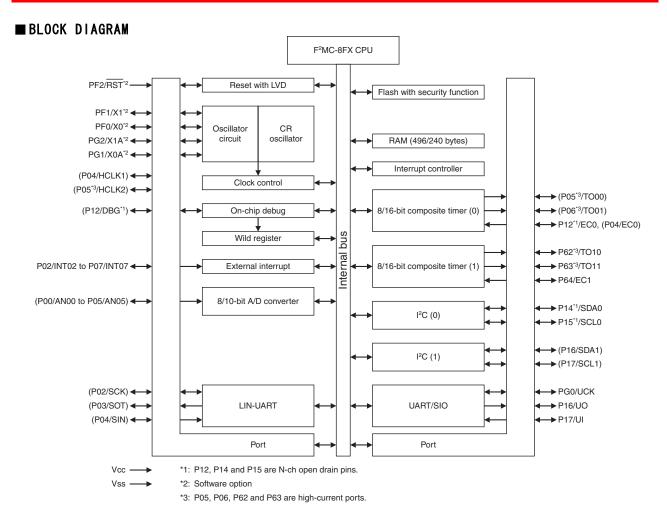
Product name	Package	Remarks
MB95F352EPF MB95F352LPF MB95F353EPF MB95F353LPF MB95F354EPF MB95F354LPF	Plastic • SOP, 24-pins (LCC-24P-M34) 7.50mm×15.34mm,1.27mm pitch	-
MB95F352EPFT MB95F352LPFT MB95F353EPFT MB95F353LPFT MB95F354EPFT MB95F354LPFT	Plastic • TSSOP, 24-pins (FPT-24P-M10) 4.40mm×7.80mm,0.65mm pitch	-
MB95F352EWQN MB95F352LWQN MB95F353EWQN MB95F353LWQN MB95F354EWQN MB95F354LWQN	Plastic • QFN, 32-pins (LCC-32P-M19) 5.00mm□, 0.50mm pitch	-

#### ■PACKAGE EXAMPLE OF REFERENCE



Plastic • TSSOP, 24-pins (FPT-24P-M10)





Note: Pins in parentheses indicate that functions of those pins are shared among different resources.

# ■ SUPPORT TOOL

# HARDWARE

Name	Part Number	Remarks
BGM adapter	MB2146-08-E	F <sup>2</sup> MC-8FX MB95200 series in common
PC cable	USB cable	Attached to MB2146-08-E, 1.0m
Evaluation board	MB2146-460-E	-

### 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, etc. (Under contemplation)	
Serial on board programmer	FUJITSU FLASH MCU Programmer	

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