



The following document contains information on Cypress products. Although the document is marked with the name "Spansion" and "Fujitsu", the company that originally developed the specification, Cypress will continue to offer these products to new and existing customers.

Continuity of Specifications

There is no change to this document as a result of offering the device as a Cypress product. Any changes that have been made are the result of normal document improvements and are noted in the document history page, where supported. Future revisions will occur when appropriate, and changes will be noted in a document history page.

Continuity of Ordering Part Numbers

Cypress continues to support existing part numbers. To order these products, please use only the Ordering Part Numbers listed in this document.

For More Information

Please contact your local sales office for additional information about Cypress products and solutions.

About Cypress

Cypress (NASDAQ: CY) delivers high-performance, high-quality solutions at the heart of today's most advanced embedded systems, from automotive, industrial and networking platforms to highly interactive consumer and mobile devices. With a broad, differentiated product portfolio that includes NOR flash memories, F-RAM™ and SRAM, Traveo™ microcontrollers, the industry's only PSoC® programmable system-on-chip solutions, analog and PMIC Power Management ICs, CapSense® capacitive touch-sensing controllers, and Wireless BLE Bluetooth® Low-Energy and USB connectivity solutions, Cypress is committed to providing its customers worldwide with consistent innovation, best-in-class support and exceptional system value.

8-bit Microcontrollers MB95630H Series



MB95630H 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. It is possible to use it for the equipment that needs the motor control like general home appliances and the power tools widely.

■ FEATURES

- **F²MC-8FX CPU**
Instruction set optimized for controllers
- **Clock**
Maximum clock frequency : 16.25MHz
- **Timer**
8/16-bit composite timer : 2 channels
8/16-bit PPG timer : 3 channels
16-bit PPG timer : 1 channel
16-bit reload timer : 1 channel
Time-base timer : 1 channel
Watch prescaler : 1 channel
- **UART/SIO** : 1 channel
- **I²C** : 1 channel
- **Multi-pulse generator (for DC motor control)** : 1 channel
- **LIN/UART** : 1 channel
- **External interrupt** : 10 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** : 8 channels
- **Comparator** : 1 channel
- **Low power consumption (standby) modes**
Stop mode
Sleep mode
Watch mode
Time-base timer mode
- **I/O port**
MB95F632K/F633K/F634K/F636K : 29
MB95F632H/F633H/F634H/F636H : 28
- **On-chip debug**
- 1-wire serial control
- Serial writing supported (asynchronous mode)
- **Low-voltage detection reset circuit**
only available on MB95F632K/F633K/F634K/F636K
- **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.

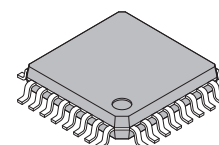
■ PRODUCT LINEUP

Product name	MB95F632H/K	MB95F633H/K	MB95F634H/K	MB95F636H/K
Type	Flash memory product			
ROM (Byte)	8K	12K	20K	36K
RAM (Byte)	256	512	1024	1024

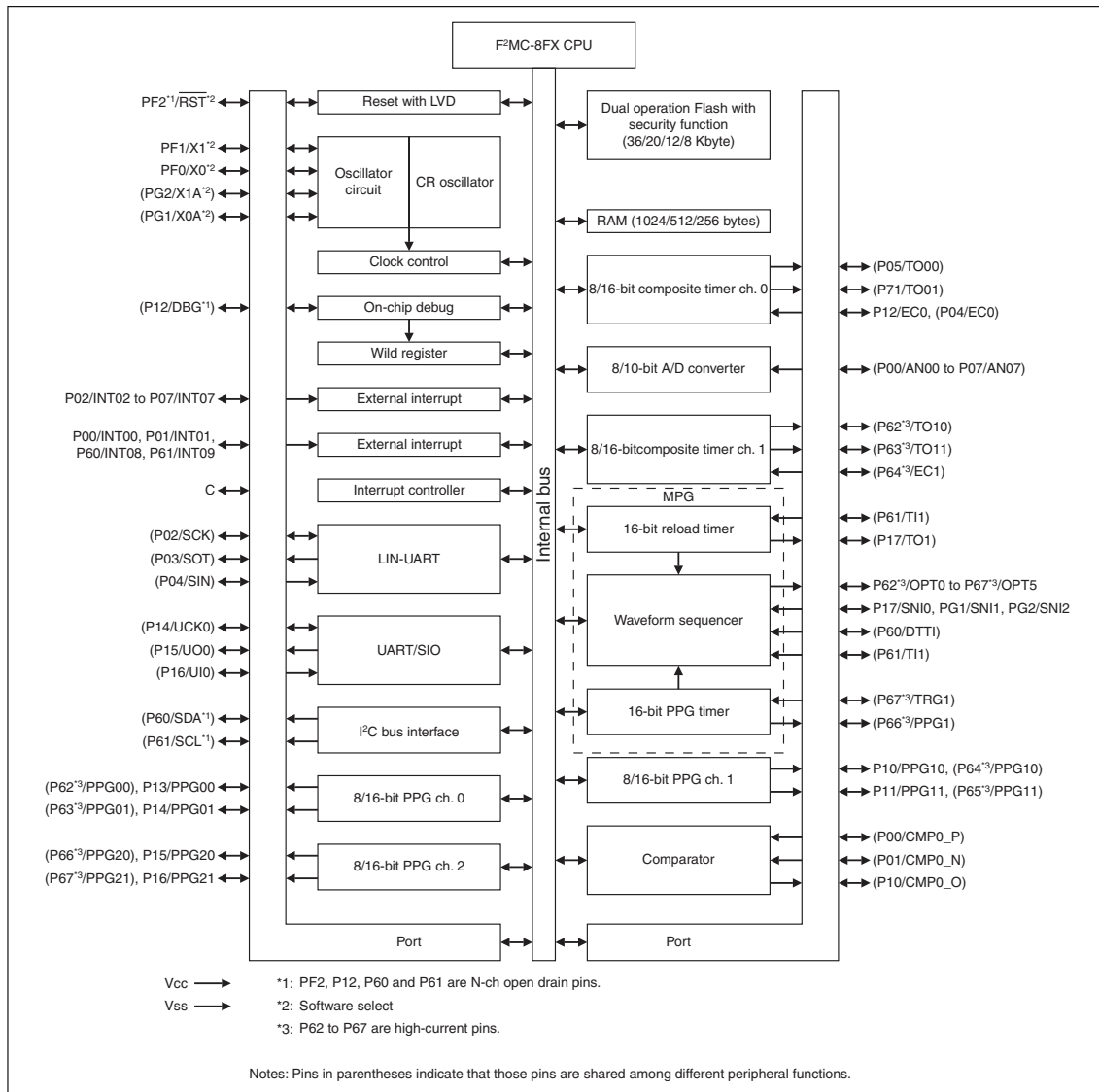
■ ORDERING INFORMATION

Part number	Package
MB95F632HPMC-G-SNE2 MB95F632KPMC-G-SNE2 MB95F633HPMC-G-SNE2 MB95F633KPMC-G-SNE2 MB95F634HPMC-G-SNE2 MB95F634KPMC-G-SNE2 MB95F636HPMC-G-SNE2 MB95F636KPMC-G-SNE2	Plastic · LQFP, 32-pins (FPT-32P-M30) 7.0mm□, 0.80mm pitch
MB95F632HP-G-SH-SNE2 MB95F632KP-G-SH-SNE2 MB95F633HP-G-SH-SNE2 MB95F633KP-G-SH-SNE2 MB95F634HP-G-SH-SNE2 MB95F634KP-G-SH-SNE2 MB95F636HP-G-SH-SNE2 MB95F636KP-G-SH-SNE2	Plastic · SH-DIP, 32-pins (DIP-32P-M06) 28.0mm×8.89mm, 1.778mm pitch
MB95F632HWQN-G-SNE1 MB95F632KWQN-G-SNE1 MB95F633HWQN-G-SNE1 MB95F633KWQN-G-SNE1 MB95F634HWQN-G-SNE1 MB95F634KWQN-G-SNE1 MB95F636HWQN-G-SNE1 MB95F636KWQN-G-SNE1	Plastic · QFN, 32-pins (LCC-32P-M19) 5.0mm□, 0.50mm pitch

■ PACKAGE EXAMPLE OF REFERENCE



Plastic · LQFP, 32-pins
(FPT-32P-M30)

■ BLOCK DIAGRAM

■ SUPPORT TOOL
• HARDWARE

Name	Part Number	Remarks
BGM adapter	MB2146-07-E	New 8FX series in common
PC cable	USB cable	Attached to MB2146-07-E, 1.0m
Evaluation board	MB2146-521-E	MCU board

• SOFTWARE

Software	Part Number	Operating System
SOFTUNE V3 Professional Pack	SP3603Z008-P01	Windows XP/Vista/7

• FLASH MICROCONTROLLER PROGRAMMER

Name	Remarks
Parallel programmer	Made by Flash Support Group, etc. (Under contemplation)
Serial on board programmer	FUJITSU FLASH MCU Programmer