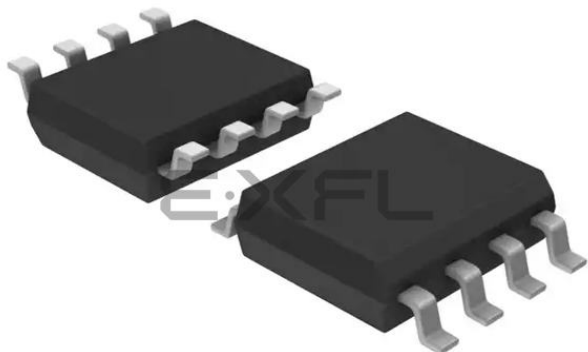




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What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Obsolete
Core Processor	F ² MC-8FX
Core Size	8-Bit
Speed	16MHz
Connectivity	-
Peripherals	LVD, POR, PWM, WDT
Number of I/O	5
Program Memory Size	8KB (8K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	240 x 8
Voltage - Supply (Vcc/Vdd)	2.4V ~ 5.5V
Data Converters	A/D 2x8/10b
Oscillator Type	External
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	8-SOIC (0.209", 5.30mm Width)
Supplier Device Package	8-SOP
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/mb95f272kpf-g-sne2

(Continued)

Part number Parameter	MB95F262H	MB95F263H	MB95F264H	MB95F262K	MB95F263K	MB95F264K
Watch prescaler	Eight different time intervals can be selected.					
Flash memory	• It supports automatic programming, Embedded Algorithm, program/erase/erase-suspend/erase-resume commands. • It has a flag indicating the completion of the operation of Embedded Algorithm. • Number of program/erase cycles: 100000 • Data retention time: 20 years • Flash security feature for protecting the content of the Flash memory					
Standby mode	Sleep mode, stop mode, watch mode, time-base timer mode					
Package	DIP-24P-M07 LCC-32P-M19 FPT-20P-M09 FPT-20P-M10					

(Continued)

Part number	MB95F282H	MB95F283H	MB95F284H	MB95F282K	MB95F283K	MB95F284K
Parameter						
Watch prescaler	Eight different time intervals can be selected.					
Flash memory	• It supports automatic programming, Embedded Algorithm, program/erase/erase-suspend/erase-resume commands. • It has a flag indicating the completion of the operation of Embedded Algorithm. • Number of program/erase cycles: 100000 • Data retention time: 20 years • Flash security feature for protecting the content of the Flash memory					
Standby mode	Sleep mode, stop mode, watch mode, time-base timer mode					
Package	LCC-32P-M19 DIP-16P-M06 FPT-16P-M06					

6. Pin Description (MB95260H Series, 24 pins)

Pin no.	Pin name	I/O circuit type*	Function
1	PF0	B	General-purpose I/O port
	X0		Main clock input oscillation pin
2	NC	—	It is an internally connected pin. Always leave it unconnected.
3	PF1	B	General-purpose I/O port
	X1		Main clock I/O oscillation pin
4	V _{SS}	—	Power supply pin (GND)
5	PG2	C	General-purpose I/O port
	X1A		Subclock I/O oscillation pin
6	PG1	C	General-purpose I/O port
	X0A		Subclock input oscillation pin
7	V _{CC}	—	Power supply pin
8	C	—	Capacitor connection pin
9	PF2	A	General-purpose I/O port
	$\overline{\text{RST}}$		Reset pin This is a dedicated reset pin in MB95F262H/F263H/F264H.
10	P62	D	General-purpose I/O port High-current pin
	TO10		8/16-bit composite timer ch. 1 output pin
11	NC	—	It is an internally connected pin. Always leave it unconnected.
12	P63	D	General-purpose I/O port High-current pin
	TO11		8/16-bit composite timer ch. 1 output pin
13	P64	D	General-purpose I/O port
	EC1		8/16-bit composite timer ch. 1 clock input pin
14	NC	—	It is an internally connected pin. Always leave it unconnected.
15	P00	E	General-purpose I/O port
	AN00		A/D converter analog input pin
16	P01	E	General-purpose I/O port
	AN01		A/D converter analog input pin
17	P02	E	General-purpose I/O port
	INT02		External interrupt input pin
	AN02		A/D converter analog input pin
	SCK		LIN-UART clock I/O pin

(Continued)

(Continued)

Pin no.	Pin name	I/O circuit type*	Function
13	P05	E	General-purpose I/O port High-current pin
	INT05		External interrupt input pin
	AN05		A/D converter analog input pin
	TO00		8/16-bit composite timer ch. 0 clock input pin
14	P06	G	General-purpose I/O port High-current pin
	INT06		External interrupt input pin
	TO01		8/16-bit composite timer ch. 0 clock input pin
15	P07	G	General-purpose I/O port
	INT07		External interrupt input pin
16	P12	H	General-purpose I/O port
	EC0		8/16-bit composite timer ch. 0 clock input pin
	DBG		DBG input pin

*: For the I/O circuit types, see "11. I/O Circuit Type".

18. I/O Map (MB95260H Series)

Address	Register abbreviation	Register name	R/W	Initial value
0000 _H	PDR0	Port 0 data register	R/W	00000000 _B
0001 _H	DDR0	Port 0 direction register	R/W	00000000 _B
0002 _H	PDR1	Port 1 data register	R/W	00000000 _B
0003 _H	DDR1	Port 1 direction register	R/W	00000000 _B
0004 _H	—	(Disabled)	—	—
0005 _H	WATR	Oscillation stabilization wait time setting register	R/W	11111111 _B
0006 _H	—	(Disabled)	—	—
0007 _H	SYCC	System clock control register	R/W	0000X011 _B
0008 _H	STBC	Standby control register	R/W	00000XXX _B
0009 _H	RSRR	Reset source register	R/W	000XXXXX _B
000A _H	TBTC	Time-base timer control register	R/W	00000000 _B
000B _H	WPCR	Watch prescaler control register	R/W	00000000 _B
000C _H	WDTC	Watchdog timer control register	R/W	00XX0000 _B
000D _H	SYCC2	System clock control register 2	R/W	XX100011 _B
000E _H to 0015 _H	—	(Disabled)	—	—
0016 _H	PDR6	Port 6 data register	R/W	00000000 _B
0017 _H	DDR6	Port 6 direction register	R/W	00000000 _B
0018 _H to 0027 _H	—	(Disabled)	—	—
0028 _H	PDRF	Port F data register	R/W	00000000 _B
0029 _H	DDRF	Port F direction register	R/W	00000000 _B
002A _H	PDRG	Port G data register	R/W	00000000 _B
002B _H	DDRG	Port G direction register	R/W	00000000 _B
002C _H	PUL0	Port 0 pull-up register	R/W	00000000 _B
002D _H to 0034 _H	—	(Disabled)	—	—
0035 _H	PULG	Port G pull-up register	R/W	00000000 _B
0036 _H	T01CR1	8/16-bit composite timer 01 status control register 1 ch. 0	R/W	00000000 _B
0037 _H	T00CR1	8/16-bit composite timer 00 status control register 1 ch. 0	R/W	00000000 _B
0038 _H	T11CR1	8/16-bit composite timer 11 status control register 1 ch. 1	R/W	00000000 _B
0039 _H	T10CR1	8/16-bit composite timer 10 status control register 1 ch. 1	R/W	00000000 _B
003A _H to 0048 _H	—	(Disabled)	—	—
0049 _H	EIC10	External interrupt circuit control register ch. 2/ch. 3	R/W	00000000 _B

(Continued)

Address	Register abbreviation	Register name	R/W	Initial value
004A _H	EIC20	External interrupt circuit control register ch. 4/ch. 5	R/W	00000000 _B
004B _H	EIC30	External interrupt circuit control register ch. 6/ch. 7	R/W	00000000 _B
004C _H to 004F _H	—	(Disabled)	—	—
0050 _H	SCR	LIN-UART serial control register	R/W	00000000 _B
0051 _H	SMR	LIN-UART serial mode register	R/W	00000000 _B
0052 _H	SSR	LIN-UART serial status register	R/W	00001000 _B
0053 _H	RDR/TDR	LIN-UART receive/transmit data register	R/W	00000000 _B
0054 _H	ESCR	LIN-UART extended status control register	R/W	00000100 _B
0055 _H	ECCR	LIN-UART extended communication control register	R/W	000000XX _B
0056 _H to 006B _H	—	(Disabled)	—	—
006C _H	ADC1	8/10-bit A/D converter control register 1	R/W	00000000 _B
006D _H	ADC2	8/10-bit A/D converter control register 2	R/W	00000000 _B
006E _H	ADDH	8/10-bit A/D converter data register upper	R/W	00000000 _B
006F _H	ADDL	8/10-bit A/D converter data register lower	R/W	00000000 _B
0070 _H	—	(Disabled)	—	—
0071 _H	FSR2	Flash memory status register 2	R/W	00000000 _B
0072 _H	FSR	Flash memory status register	R/W	000X0000 _B
0073 _H	SWRE0	Flash memory sector write control register 0	R/W	00000000 _B
0074 _H	FSR3	Flash memory status register 3	R	0000XXXX _B
0075 _H	—	(Disabled)	—	—
0076 _H	WREN	Wild register address compare enable register	R/W	00000000 _B
0077 _H	WROR	Wild register data test setting register	R/W	00000000 _B
0078 _H	—	Mirror of register bank pointer (RP) and direct bank pointer (DP)	—	—
0079 _H	ILR0	Interrupt level setting register 0	R/W	11111111 _B
007A _H	ILR1	Interrupt level setting register 1	R/W	11111111 _B
007B _H	ILR2	Interrupt level setting register 2	R/W	11111111 _B
007C _H	ILR3	Interrupt level setting register 3	R/W	11111111 _B
007D _H	ILR4	Interrupt level setting register 4	R/W	11111111 _B
007E _H	ILR5	Interrupt level setting register 5	R/W	11111111 _B
007F _H	—	(Disabled)	—	—
0F80 _H	WRARH0	Wild register address setting register (Upper) ch. 0	R/W	00000000 _B

(Continued)

(Continued)

Address	Register abbreviation	Register name	R/W	Initial value
0FE9 _H	CMCR	Clock monitoring control register	R/W	00000000 _B
0FEA _H	CMDR	Clock monitoring data register	R/W	00000000 _B
0FEB _H	WDTH	Watchdog timer selection ID register (Upper)	R/W	XXXXXXXX _B
0FEC _H	WDTL	Watchdog timer selection ID register (Lower)	R/W	XXXXXXXX _B
0FED _H	—	(Disabled)	—	—
0FEE _H	ILSR	Input level select register	R/W	00000000 _B
0FEF _H to 0FFF _H	—	(Disabled)	—	—

R/W access symbols

R/W : Readable / Writable

R : Read only

Initial value symbols

0 : The initial value of this bit is "0".

1 : The initial value of this bit is "1".

X : The initial value of this bit is undefined.

Note: Do not write to an address that is "(Disabled)". If a "(Disabled)" address is read, an indeterminate value is returned.

Address	Register abbreviation	Register name	R/W	Initial value
004A _H	EIC20	External interrupt circuit control register ch. 4/ch. 5	R/W	00000000 _B
004B _H	EIC30	External interrupt circuit control register ch. 6/ch. 7	R/W	00000000 _B
004C _H to 004F _H	—	(Disabled)	—	—
0050 _H	SCR	LIN-UART serial control register	R/W	00000000 _B
0051 _H	SMR	LIN-UART serial mode register	R/W	00000000 _B
0052 _H	SSR	LIN-UART serial status register	R/W	00001000 _B
0053 _H	RDR/TDR	LIN-UART receive/transmit data register	R/W	00000000 _B
0054 _H	ESCR	LIN-UART extended status control register	R/W	00000100 _B
0055 _H	ECCR	LIN-UART extended communication control register	R/W	000000XX _B
0056 _H to 006B _H	—	(Disabled)	—	—
006C _H	ADC1	8/10-bit A/D converter control register 1	R/W	00000000 _B
006D _H	ADC2	8/10-bit A/D converter control register 2	R/W	00000000 _B
006E _H	ADDH	8/10-bit A/D converter data register upper	R/W	00000000 _B
006F _H	ADDL	8/10-bit A/D converter data register lower	R/W	00000000 _B
0070 _H	—	(Disabled)	—	—
0071 _H	FSR2	Flash memory status register 2	R/W	00000000 _B
0072 _H	FSR	Flash memory status register	R/W	000X0000 _B
0073 _H	SWRE0	Flash memory sector write control register 0	R/W	00000000 _B
0074 _H	FSR3	Flash memory status register 3	R	0000XXXX _B
0075 _H	—	(Disabled)	—	—
0076 _H	WREN	Wild register address compare enable register	R/W	00000000 _B
0077 _H	WROR	Wild register data test setting register	R/W	00000000 _B
0078 _H	—	Mirror of register bank pointer (RP) and direct bank pointer (DP)	—	—
0079 _H	ILR0	Interrupt level setting register 0	R/W	11111111 _B
007A _H	ILR1	Interrupt level setting register 1	R/W	11111111 _B
007B _H	ILR2	Interrupt level setting register 2	R/W	11111111 _B
007C _H	ILR3	Interrupt level setting register 3	R/W	11111111 _B
007D _H	ILR4	Interrupt level setting register 4	R/W	11111111 _B
007E _H	ILR5	Interrupt level setting register 5	R/W	11111111 _B
007F _H	—	(Disabled)	—	—

(Continued)

(Continued)

Address	Register abbreviation	Register name	R/W	Initial value
0FE6 _H , 0FE7 _H	—	(Disabled)	—	—
0FE8 _H	SYSC	System configuration register	R/W	11000011 _B
0FE9 _H	CMCR	Clock monitoring control register	R/W	00000000 _B
0FEA _H	CMDR	Clock monitoring data register	R/W	00000000 _B
0FEB _H	WDTH	Watchdog timer selection ID register (Upper)	R/W	XXXXXXXX _B
0FEC _H	WDTL	Watchdog timer selection ID register (Lower)	R/W	XXXXXXXX _B
0FED _H	—	(Disabled)	—	—
0FEE _H	ILSR	Input level select register	R/W	00000000 _B
0FEF _H to 0FFF _H	—	(Disabled)	—	—

R/W access symbols

R/W : Readable / Writable

R : Read only

Initial value symbols

0 : The initial value of this bit is "0".

1 : The initial value of this bit is "1".

X : The initial value of this bit is undefined.

Note: Do not write to an address that is "(Disabled)". If a "(Disabled)" address is read, an indeterminate value is returned.

24.3 DC Characteristics
 $(V_{CC} = 5.0\text{ V} \pm 10\%, V_{SS} = 0.0\text{ V}, T_A = -40^\circ\text{C to } +85^\circ\text{C})$

Parameter	Symbol	Pin name	Condition	Value			Unit	Remarks
				Min	Typ	Max		
"H" level input voltage	V_{IH1}	P04	*1	$0.7 V_{CC}$	—	$V_{CC} + 0.3$	V	When CMOS input level (hysteresis input) is selected
	V_{IHS}	P00 to P07, P12, P62 to P64, PF0, PF1, PG1, PG2	*1	$0.8 V_{CC}$	—	$V_{CC} + 0.3$	V	Hysteresis input
	V_{IHM}	PF2	—	$0.7 V_{CC}$	—	$V_{CC} + 0.3$	V	Hysteresis input
"L" level input voltage	V_{IL}	P04	*1	$V_{SS} - 0.3$	—	$0.3 V_{CC}$	V	When CMOS input level (hysteresis input) is selected
	V_{ILS}	P00 to P07, P12, P62 to P64, PF0, PF1, PG1, PG2	*1	$V_{SS} - 0.3$	—	$0.2 V_{CC}$	V	Hysteresis input
	V_{ILM}	PF2	—	$V_{SS} - 0.3$	—	$0.3 V_{CC}$	V	Hysteresis input
Open-drain output application voltage	V_D	PF2, P12	—	$V_{SS} - 0.3$	—	$V_{SS} + 5.5$	V	
"H" level output voltage	V_{OH1}	Output pins other than P05, P06, P12, P62, P63, PF2*2	$I_{OH} = -4\text{ mA}$	$V_{CC} - 0.5$	—	—	V	
	V_{OH2}	P05, P06, P62, P63*2	$I_{OH} = -8\text{ mA}$	$V_{CC} - 0.5$	—	—	V	
"L" level output voltage	V_{OL1}	Output pins other than P05, P06, P62, P63*2	$I_{OL} = 4\text{ mA}$	—	—	0.4	V	
	V_{OL2}	P05, P06, P62, P63*2	$I_{OL} = 12\text{ mA}$	—	—	0.4	V	
Input leak current (Hi-Z output leak current)	I_{LI}	All input pins	$0.0\text{ V} < V_I < V_{CC}$	- 5	—	+ 5	μA	When pull-up resistance is disabled
Pull-up resistance	R_{PULL}	P00 to P07, PG1, PG2*3*4	$V_I = 0\text{ V}$	25	50	100	k Ω	When pull-up resistance is enabled
Input capacitance	C_{IN}	Other than V_{CC} and V_{SS}	$f = 1\text{ MHz}$	—	5	15	pF	

(Continued)

Sampling is executed at the falling edge of the sampling clock*1, and serial clock delay is disabled*2.
(ESCR register: SCES bit = 1, ECCR register: SCDE bit = 0)

($V_{CC} = 5.0 \text{ V} \pm 10\%$, $V_{SS} = 0.0 \text{ V}$, $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$)

Parameter	Symbol	Pin name	Condition	Value		Unit
				Min	Max	
Serial clock cycle time	t_{SCYC}	SCK	Internal clock operation output pin: $C_L = 80 \text{ pF} + 1 \text{ TTL}$	$5 t_{MCLK}^{*3}$	—	ns
SCK $\uparrow \rightarrow$ SOT delay time	t_{SHOVI}	SCK, SOT		- 95	+ 95	ns
Valid SIN $\rightarrow$ SCK $\downarrow$	t_{IVSLI}	SCK, SIN		$t_{MCLK}^{*3} + 190$	—	ns
SCK $\downarrow \rightarrow$ valid SIN hold time	t_{SLIXI}	SCK, SIN		0	—	ns
Serial clock "H" pulse width	t_{SHSL}	SCK	External clock operation output pin: $C_L = 80 \text{ pF} + 1 \text{ TTL}$	$3 t_{MCLK}^{*3} - t_R$	—	ns
Serial clock "L" pulse width	t_{SLSH}	SCK		$t_{MCLK}^{*3} + 95$	—	ns
SCK $\uparrow \rightarrow$ SOT delay time	t_{SHOVE}	SCK, SOT		—	$2 t_{MCLK}^{*3} + 95$	ns
Valid SIN $\rightarrow$ SCK $\downarrow$	t_{IVSLE}	SCK, SIN		190	—	ns
SCK $\downarrow \rightarrow$ valid SIN hold time	t_{SLIXE}	SCK, SIN		$t_{MCLK}^{*3} + 95$	—	ns
SCK fall time	t_F	SCK		—	10	ns
SCK rise time	t_R	SCK		—	10	ns

*1: There is a function used to choose whether the sampling of reception data is performed at a rising edge or a falling edge of the serial clock.

*2: The serial clock delay function is a function used to delay the output signal of the serial clock for half the clock.

*3: See "24.4.2. Source Clock / Machine Clock" for t_{MCLK} .

Sampling is executed at the falling edge of the sampling clock*1, and serial clock delay is enabled*2.
 (ESCR register: SCES bit = 1, ECCR register: SCDE bit = 1)

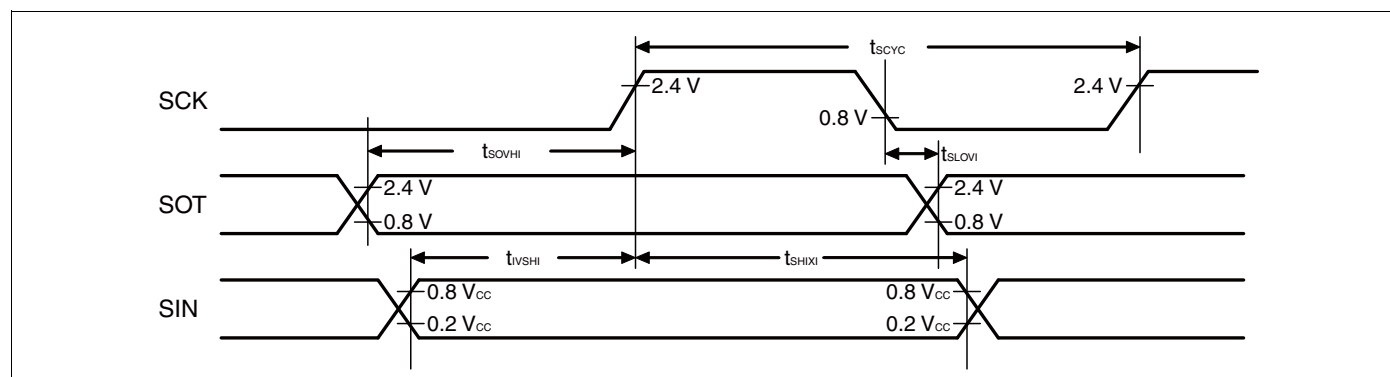
($V_{CC} = 5.0\text{ V} \pm 10\%$, $V_{SS} = 0.0\text{ V}$, $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$)

Parameter	Symbol	Pin name	Condition	Value		Unit
				Min	Max	
Serial clock cycle time	t_{SCYC}	SCK	Internal clock operating output pin: $C_L = 80\text{ pF} + 1\text{ TTL}$	$5 t_{MCLK}^{*3}$	—	ns
SCK $\downarrow \rightarrow$ SOT delay time	t_{SLOVI}	SCK, SOT		- 95	+ 95	ns
Valid SIN $\rightarrow$ SCK $\uparrow$	t_{IVSHI}	SCK, SIN		$t_{MCLK}^{*3} + 190$	—	ns
SCK $\uparrow \rightarrow$ valid SIN hold time	t_{SHIXI}	SCK, SIN		0	—	ns
SOT $\rightarrow$ SCK $\uparrow$ delay time	t_{SOVHI}	SCK, SOT		—	$4 t_{MCLK}^{*3}$	ns

*1: There is a function used to choose whether the sampling of reception data is performed at a rising edge or a falling edge of the serial clock.

*2: The serial clock delay function is a function that delays the output signal of the serial clock for half clock.

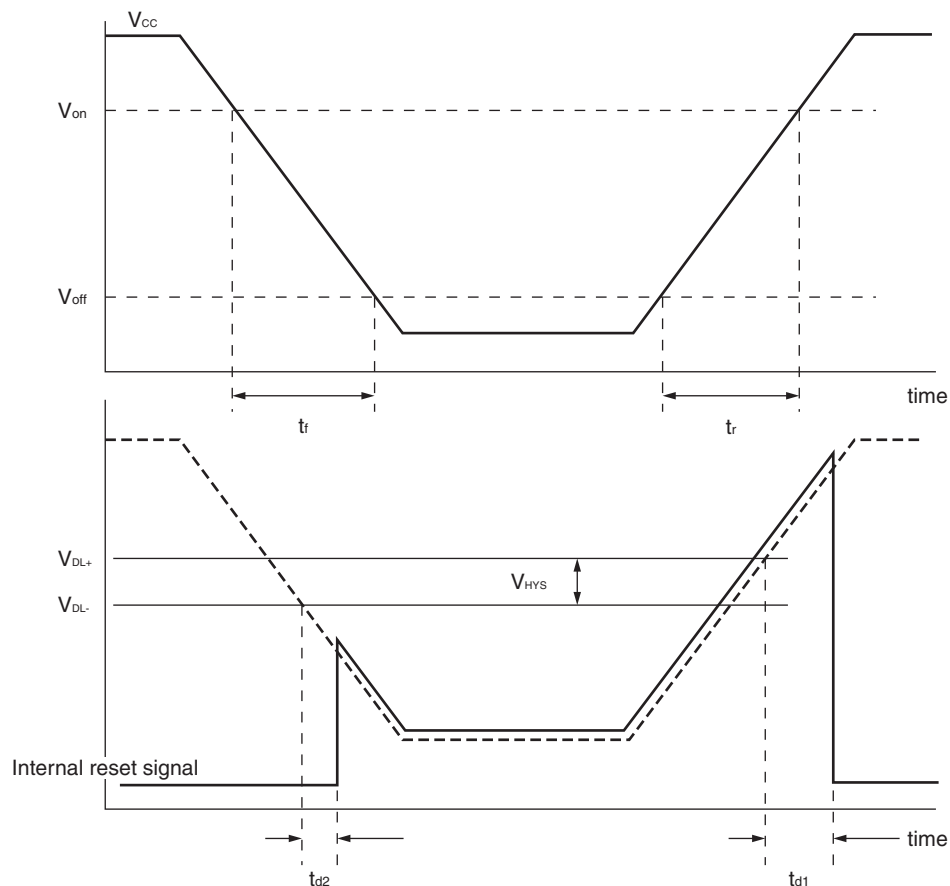
*3: See "24.4.2. Source Clock / Machine Clock" for t_{MCLK} .



24.4.7 Low-voltage Detection

($V_{SS} = 0.0 \text{ V}$, $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$)

Parameter	Symbol	Value			Unit	Remarks
		Min	Typ	Max		
Release voltage	V_{DL+}	2.52	2.7	2.88	V	At power supply rise
Detection voltage	V_{DL-}	2.42	2.6	2.78	V	At power supply fall
Hysteresis width	V_{HYS}	70	100	—	mV	
Power supply start voltage	V_{off}	—	—	2.3	V	
Power supply end voltage	V_{on}	4.9	—	—	V	
Power supply voltage change time (at power supply rise)	t_r	3000	—	—	μs	Slope of power supply that the reset release signal generates within the rating (V_{DL+})
Power supply voltage change time (at power supply fall)	t_f	300	—	—	μs	Slope of power supply that the reset detection signal generates within the rating (V_{DL-})
Reset release delay time	t_{d1}	—	—	300	μs	
Reset detection delay time	t_{d2}	—	—	20	μs	



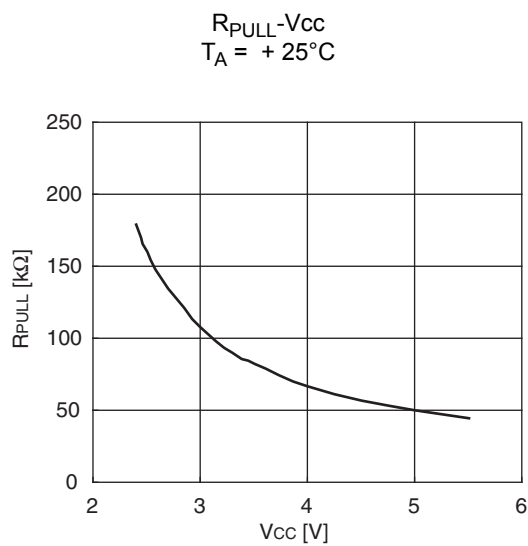
24.5 A/D Converter

24.5.1 A/D Converter Electrical Characteristics

($V_{CC} = 4.0\text{ V to }5.5\text{ V}$, $V_{SS} = 0.0\text{ V}$, $T_A = -40^\circ\text{C to }+85^\circ\text{C}$)

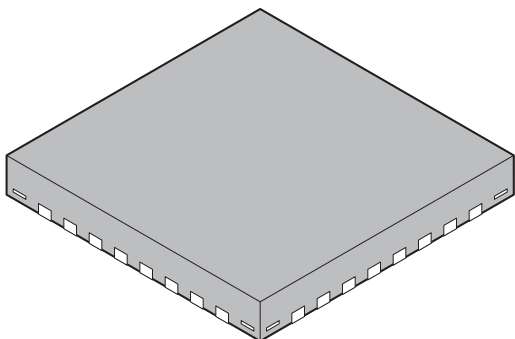
Parameter	Symbol	Value			Unit	Remarks
		Min	Typ	Max		
Resolution	—	—	—	10	bit	
Total error		- 3	—	+ 3	LSB	
Linearity error		- 2.5	—	+ 2.5	LSB	
Differential linear error		- 1.9	—	+ 1.9	LSB	
Zero transition voltage	V_{OT}	$V_{SS} - 1.5\text{ LSB}$	$V_{SS} + 0.5\text{ LSB}$	$V_{SS} + 2.5\text{ LSB}$	V	
Full-scale transition voltage	V_{FST}	$V_{CC} - 4.5\text{ LSB}$	$V_{CC} - 2\text{ LSB}$	$V_{CC} + 0.5\text{ LSB}$	V	
Compare time	—	0.9	—	16500	μs	$4.5\text{ V} \leq V_{CC} \leq 5.5\text{ V}$
		1.8	—	16500	μs	$4.0\text{ V} \leq V_{CC} < 4.5\text{ V}$
Sampling time	—	0.6	—	∞	μs	$4.5\text{ V} \leq V_{CC} \leq 5.5\text{ V}$, with external impedance < 5.4 k Ω
		1.2	—	∞	μs	$4.0\text{ V} \leq V_{CC} < 4.5\text{ V}$, with external impedance < 2.4 k Ω
Analog input current	I_{AIN}	- 0.3	—	+ 0.3	μA	
Analog input voltage	V_{AIN}	V_{SS}	—	V_{CC}	V	

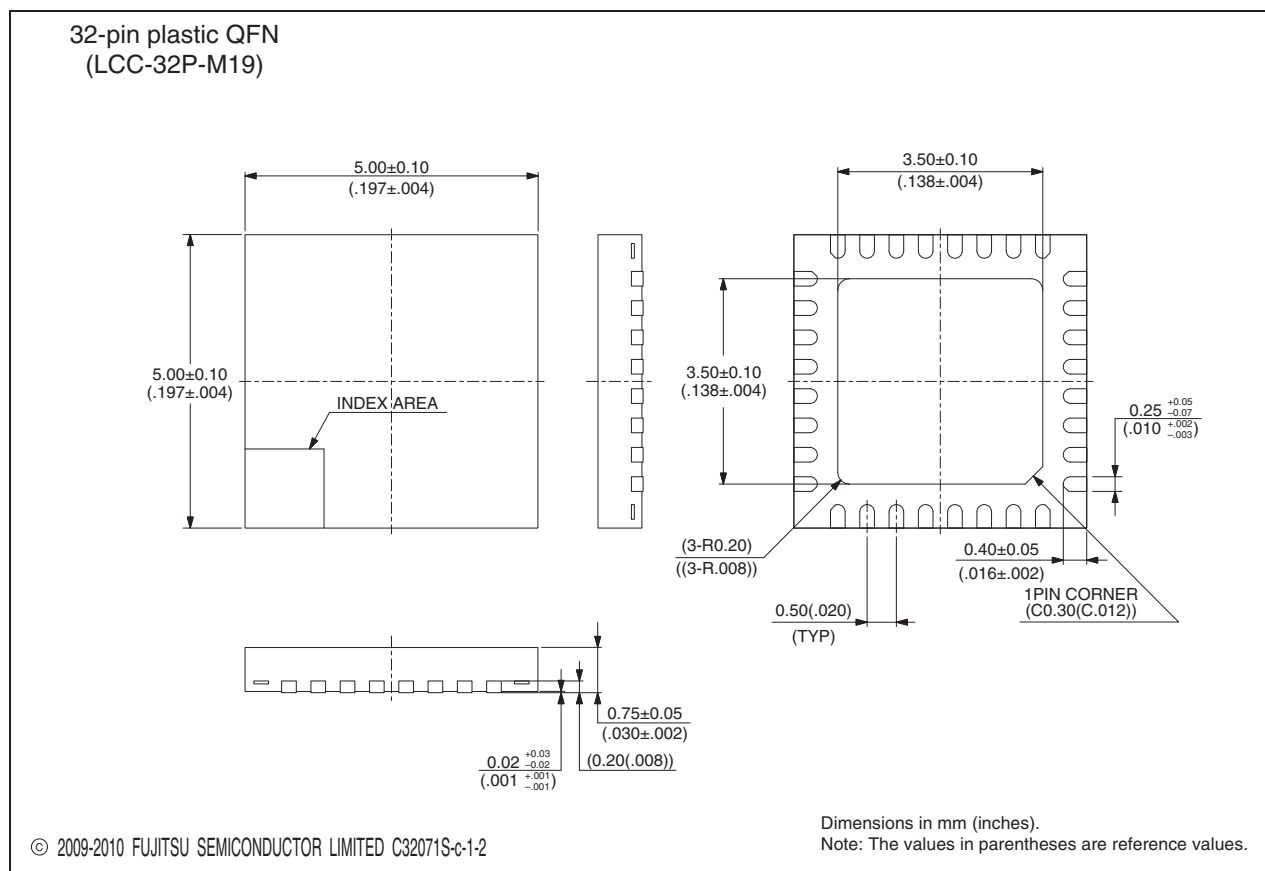
Pull-up



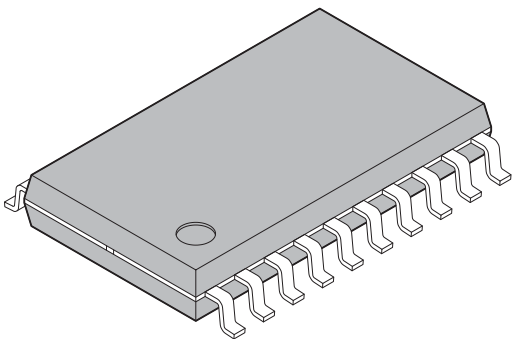
26. Mask Options

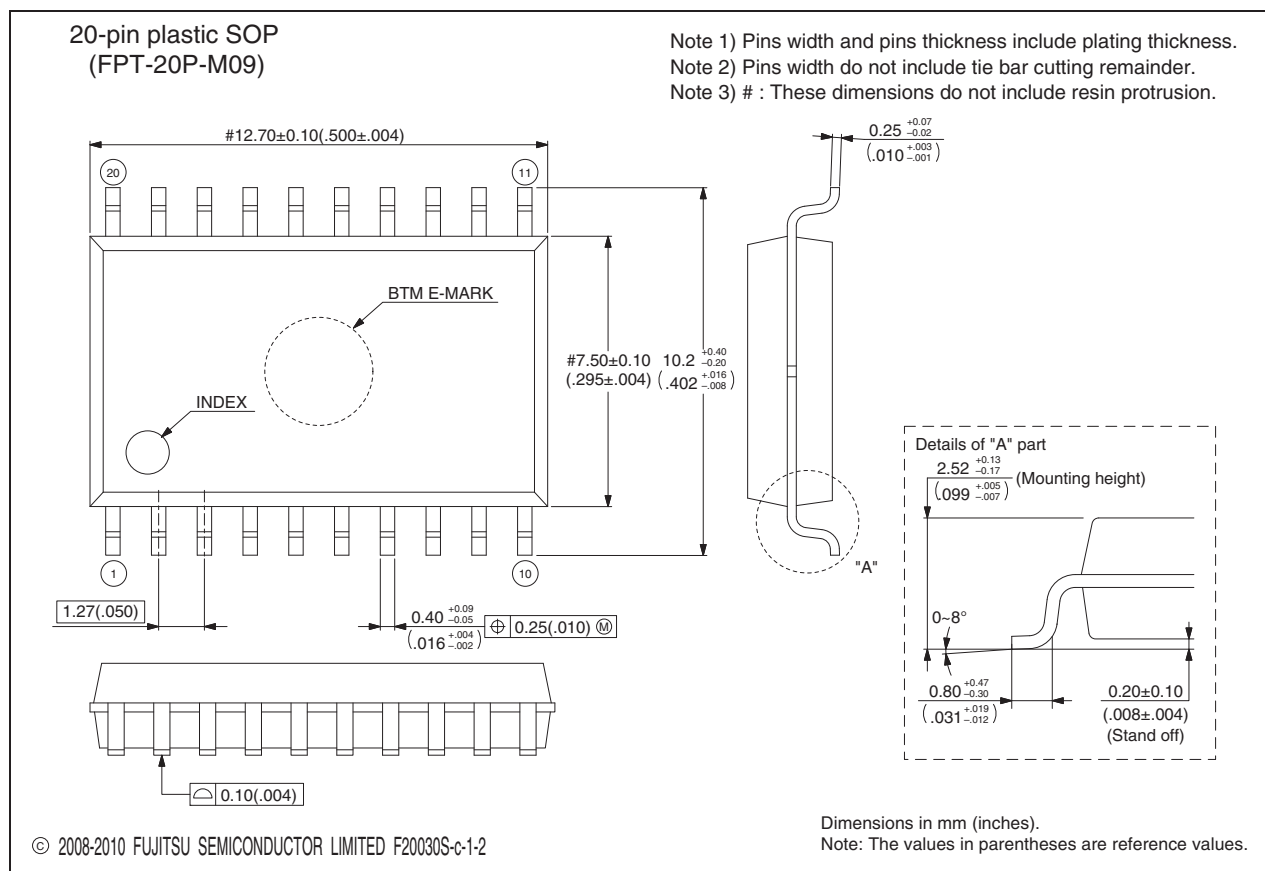
No.	Part Number	MB95F262H MB95F263H MB95F264H MB95F272H MB95F273H MB95F274H MB95F282H MB95F283H MB95F284H	MB95F262K MB95F263K MB95F264K MB95F272K MB95F273K MB95F274K MB95F282K MB95F283K MB95F284K
	Selectable/Fixed	Fixed	
1	Low-voltage detection reset	Without low-voltage detection reset	With low-voltage detection reset
2	Reset	With dedicated reset input	Without dedicated reset input

32-pin plastic QFN  (LCC-32P-M19)	Lead pitch	0.50 mm
	Package width × package length	5.00 mm × 5.00 mm
	Sealing method	Plastic mold
	Mounting height	0.80 mm MAX
	Weight	0.06 g

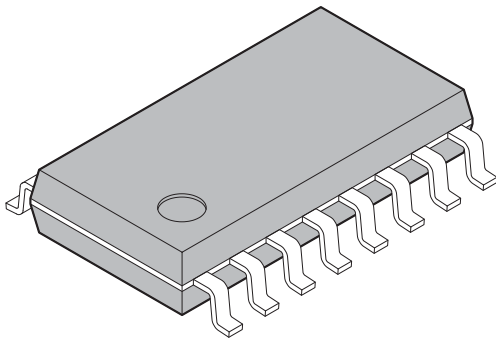


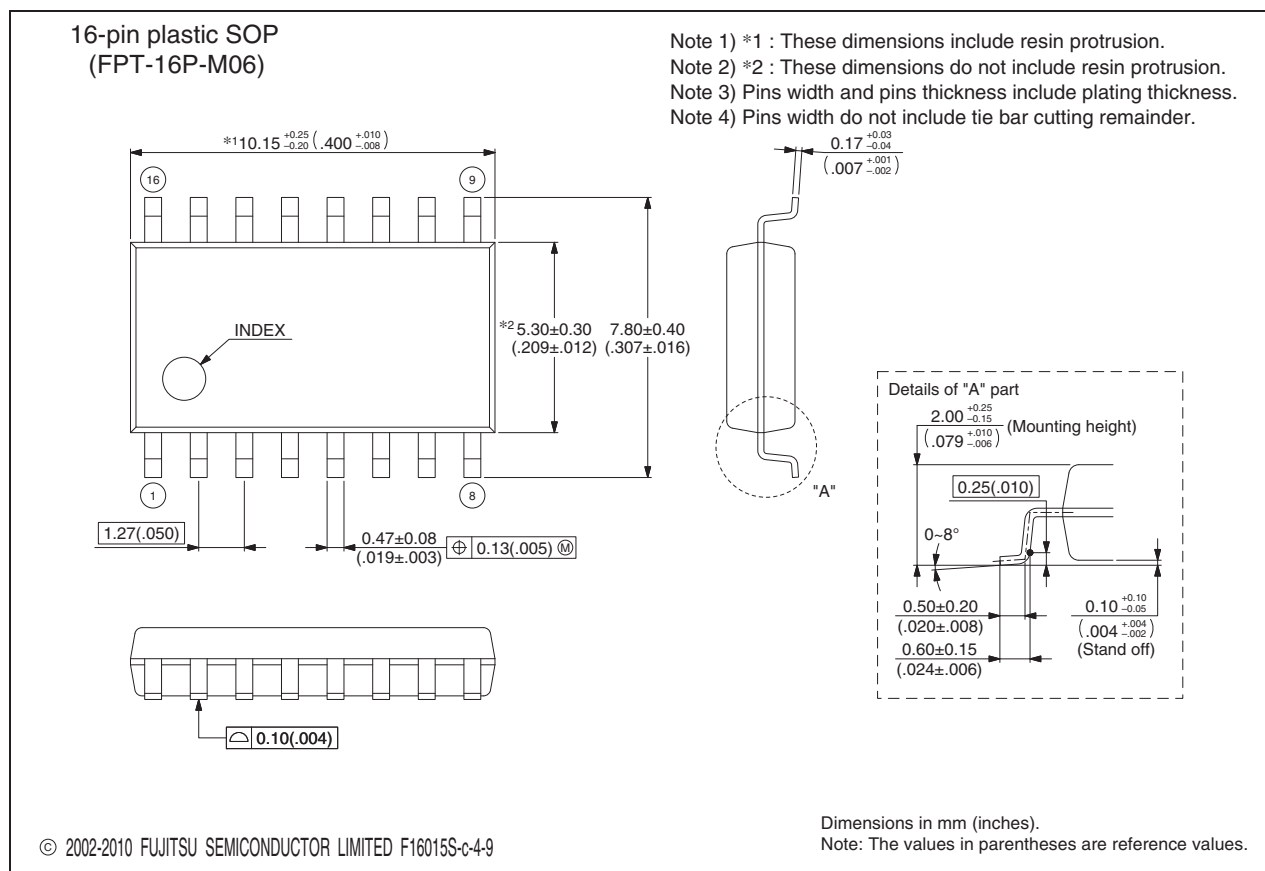
(Continued)

20-pin plastic SOP  (FPT-20P-M09)	Lead pitch	1.27 mm
	Package width × package length	7.50 mm × 12.70 mm
	Lead shape	Gullwing
	Lead bend direction	Normal bend
	Sealing method	Plastic mold
	Mounting height	2.65 mm Max

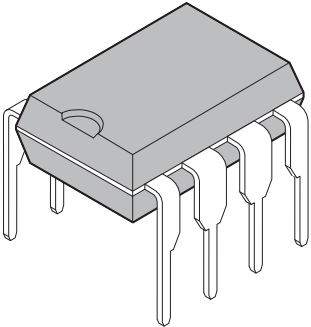


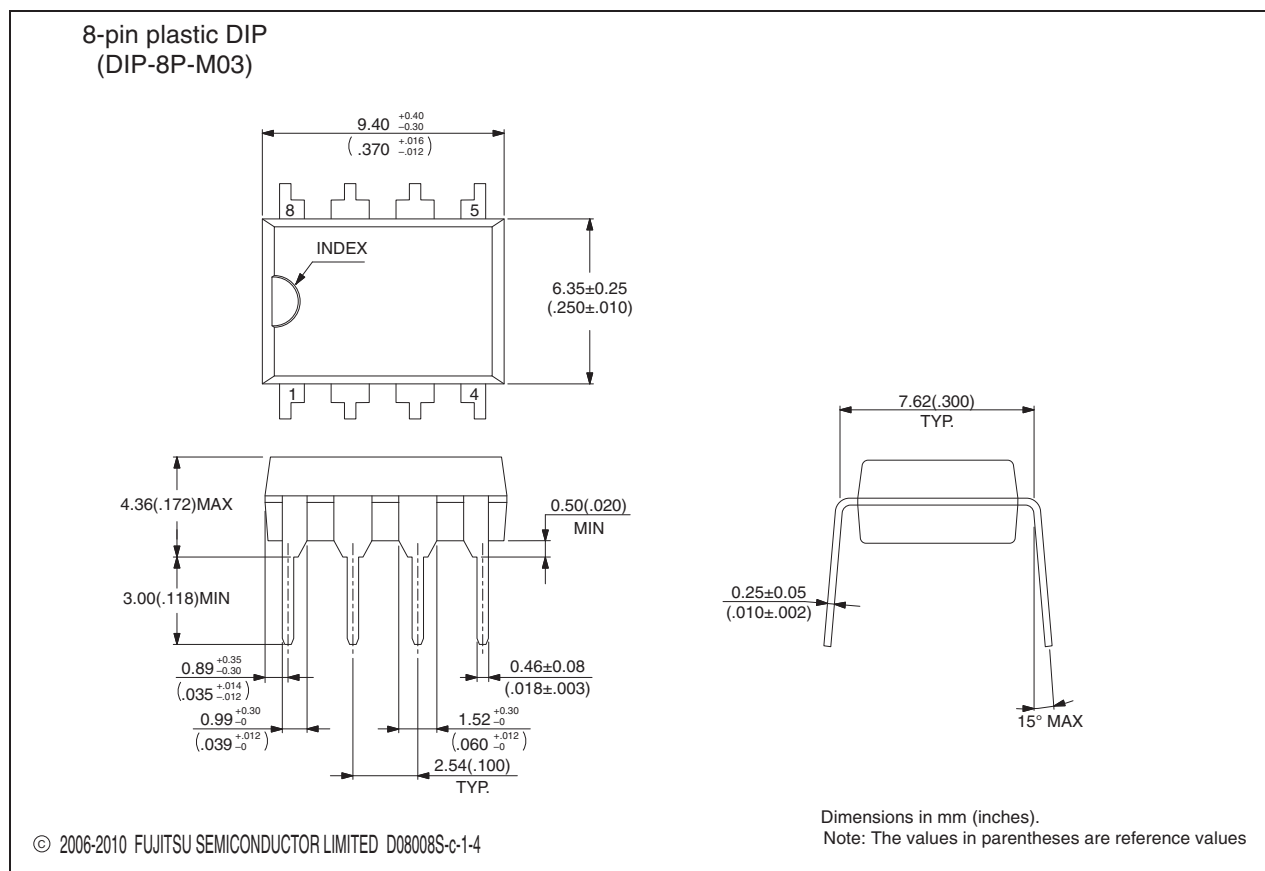
(Continued)

16-pin plastic SOP  (FPT-16P-M06)	Lead pitch	1.27 mm
	Package width × package length	5.3 × 10.15 mm
	Lead shape	Gullwing
	Sealing method	Plastic mold
	Mounting height	2.25 mm MAX
	Weight	0.20 g
	Code (Reference)	P-SOP16-5.3×10.15-1.27



(Continued)

8-pin plastic DIP  (DIP-8P-M03)	Lead pitch	2.54 mm
	Sealing method	Plastic mold



(Continued)