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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-16FX
Core Size	16-Bit
Speed	32MHz
Connectivity	CANbus, I ² C, LINbus, SCI, UART/USART
Peripherals	DMA, LCD, LVD, POR, PWM, WDT
Number of I/O	99
Program Memory Size	288KB (288K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	16K x 8
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V
Data Converters	A/D 32x8/10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	120-LQFP
Supplier Device Package	120-LQFP (16x16)
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/mb96f6c6rbpmc-gse2

- Programmable loop-back mode for self-test operation

USART

- Full duplex USARTs (SCI/LIN)
- Wide range of baud rate settings using a dedicated reload timer
- Special synchronous options for adapting to different synchronous serial protocols
- LIN functionality working either as master or slave LIN device
- Extended support for LIN-Protocol to reduce interrupt load

I²C

- Up to 400kbps
- Master and Slave functionality, 7-bit and 10-bit addressing

A/D converter

- SAR-type
- 8/10-bit resolution
- Signals interrupt on conversion end, single conversion mode, continuous conversion mode, stop conversion mode, activation by software, external trigger, reload timers and PPGs
- Range Comparator Function
- Scan Disable Function
- ADC Pulse Detection Function

Source Clock Timers

Three independent clock timers (23-bit RC clock timer, 23-bit Main clock timer, 17-bit Sub clock timer)

Hardware Watchdog Timer

- Hardware watchdog timer is active after reset
- Window function of Watchdog Timer is used to select the lower window limit of the watchdog interval

Reload Timers

- 16-bit wide
- Prescaler with $1/2^1$, $1/2^2$, $1/2^3$, $1/2^4$, $1/2^5$, $1/2^6$ of peripheral clock frequency
- Event count function

Free-Running Timers

- Signals an interrupt on overflow, supports timer clear upon match with Output Compare (0, 4)
- Prescaler with 1, $1/2^1$, $1/2^2$, $1/2^3$, $1/2^4$, $1/2^5$, $1/2^6$, $1/2^7$, $1/2^8$ of peripheral clock frequency

Input Capture Units

- 16-bit wide

- Signals an interrupt upon external event
- Rising edge, Falling edge or Both (rising & falling) edges sensitive

Output Compare Units

- 16-bit wide
- Signals an interrupt when a match with Free-running Timer occurs
- A pair of compare registers can be used to generate an output signal

Programmable Pulse Generator

- 16-bit down counter, cycle and duty setting registers
- Can be used as 2×8 -bit PPG
- Interrupt at trigger, counter borrow and/or duty match
- PWM operation and one-shot operation
- Internal prescaler allows 1, 1/4, 1/16, 1/64 of peripheral clock as counter clock or of selected Reload timer underflow as clock input
- Can be triggered by software or reload timer
- Can trigger ADC conversion
- Timing point capture
- Start delay

Quadrature Position/Revolution Counter (QPRC)

- Up/down count mode, Phase difference count mode, Count mode with direction
- 16-bit position counter
- 16-bit revolution counter
- Two 16-bit compare registers with interrupt
- Detection edge of the three external event input pins AIN, BIN and ZIN is configurable

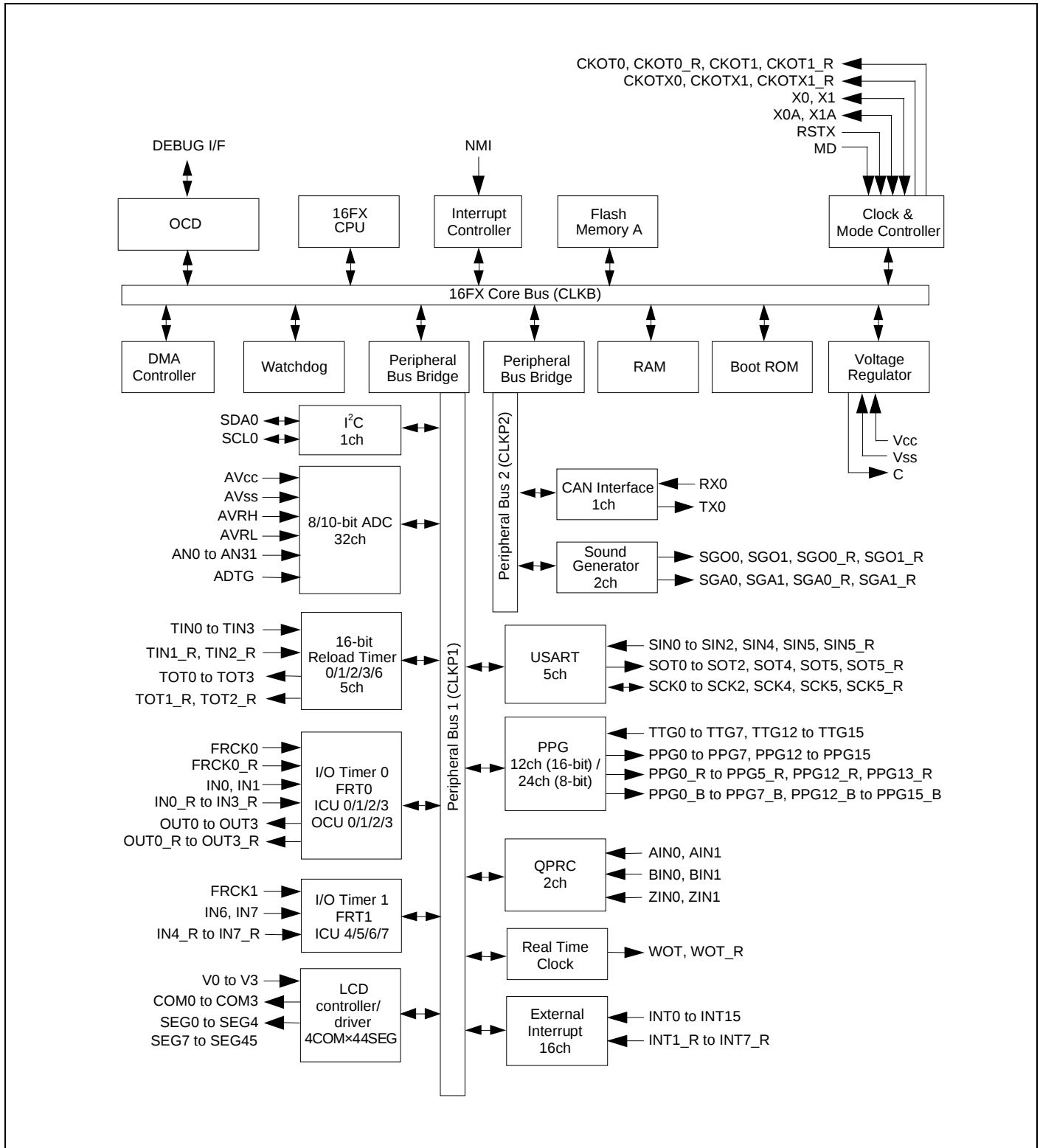
LCD Controller

- LCD controller with up to $4\text{COM} \times 44\text{SEG}$
- Internal or external voltage generation
- Duty cycle: Selectable from options: 1/2, 1/3 and 1/4
- Fixed 1/3 bias
- Programmable frame period
- Clock source selectable from four options (main clock, peripheral clock, subclock or RC oscillator clock)
- Internal divider resistors or external divider resistors
- On-chip data memory for display
- LCD display can be operated in Timer Mode
- Blank display: selectable

Contents

1. Product Lineup	5
2. Block Diagram	6
3. Pin Assignment	7
4. Pin Description	8
5. Pin Circuit Type	10
6. I/O Circuit Type	14
7. Memory Map	21
8. RAMSTART Addresses	22
9. User ROM Memory Map for Flash Devices	23
10. Serial Programming Communication Interface	24
11. Interrupt Vector Table	25
12. Handling Precautions	29
12.1 Precautions for Product Design	29
12.2 Precautions for Package Mounting	30
12.3 Precautions for Use Environment	31
13. Handling Devices	32
14. Electrical Characteristics	36
14.1 Absolute Maximum Ratings	36
14.2 Recommended Operating Conditions	39
14.3 DC Characteristics	40
14.3.1 Current Rating	40
14.3.2 Pin Characteristics	44
14.4 AC Characteristics	47
14.4.1 Main Clock Input Characteristics	47
14.4.2 Sub Clock Input Characteristics	49
14.4.3 Built-in RC Oscillation Characteristics	50
14.4.4 Internal Clock Timing	50
14.4.5 Operating Conditions of PLL	51
14.4.6 Reset Input	51
14.4.7 Power-on Reset Timing	52
14.4.8 USART Timing	53
14.4.9 External Input Timing	55
14.4.10 I ² C Timing	56
14.5 A/D Converter	57
14.5.1 Electrical Characteristics for the A/D Converter	57
14.5.2 Accuracy and Setting of the A/D Converter Sampling Time	58
14.5.3 Definition of A/D Converter Terms	59
14.6 High Current Output Slew Rate	61
14.7 Low Voltage Detection Function Characteristics	62
14.8 Flash Memory Write/Erase Characteristics	64
15. Example Characteristics	65
16. Ordering Information	68
17. Package Dimension	69
18. Major Changes	70
Document History	70

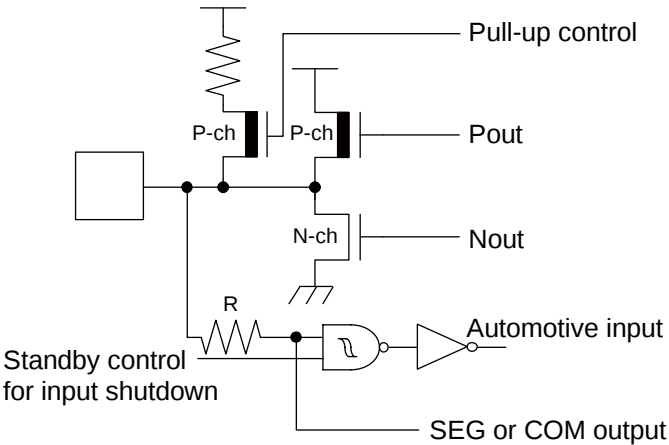
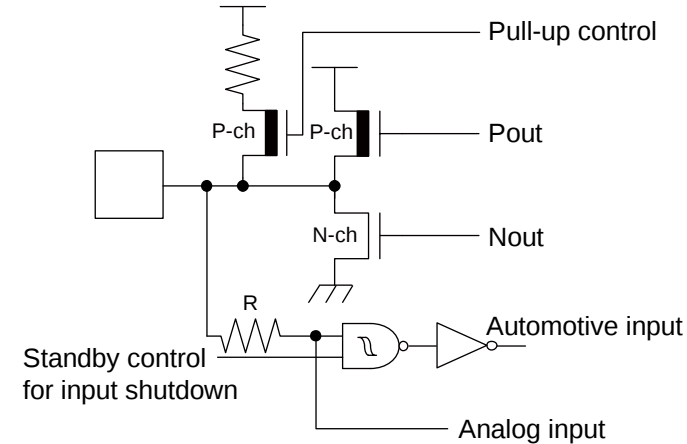
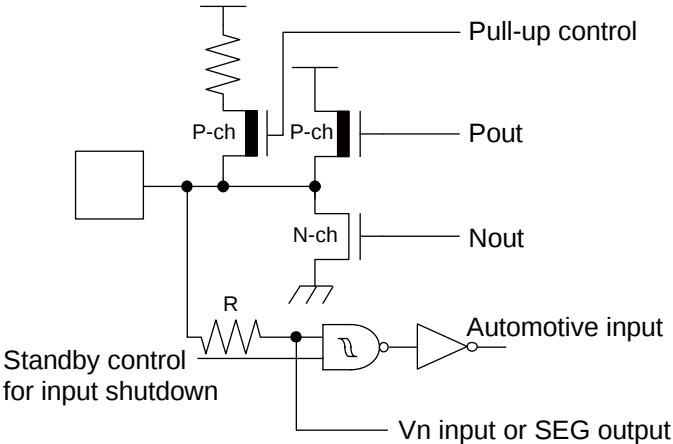
2. Block Diagram

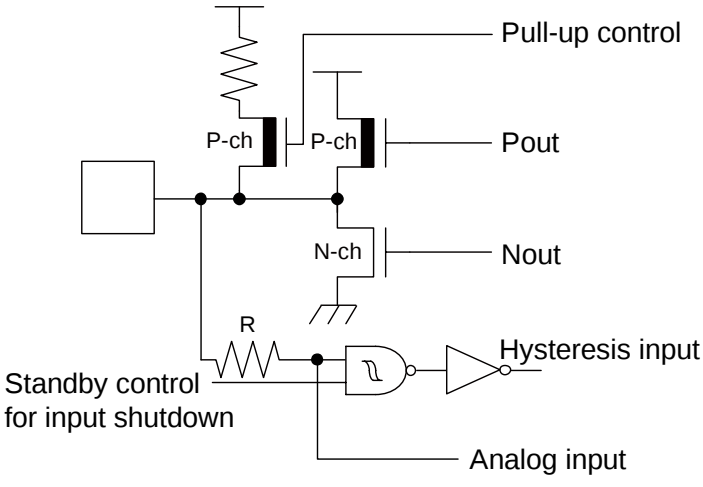
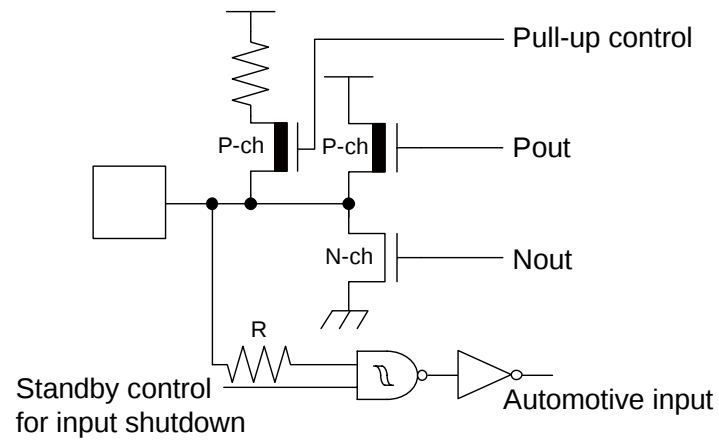


Pin no.	I/O circuit type*	Pin name
38	V	P08_2 / AN18
39	V	P08_3 / AN19
40	V	P08_4 / AN20
41	H	P17_1 / PPG12_R
42	H	P17_2 / PPG13_R
43	V	P08_5 / AN21
44	V	P08_6 / AN22 / PPG6_B
45	V	P08_7 / AN23 / PPG7_B
46	V	P09_0 / AN24
47	V	P09_1 / AN25
48	V	P09_2 / AN26
49	V	P09_3 / AN27
50	Y	P09_4 / PPG12
51	Y	P09_5 / PPG13
52	Y	P09_6 / PPG14
53	Supply	Vcc
54	Supply	Vss
55	Y	P09_7 / PPG15
56	W	P10_0 / SIN2 / TIN3 / INT11 / AN28
57	V	P10_1 / SOT2 / TOT3 / AN29
58	W	P10_2 / SCK2 / PPG6 / AN30
59	V	P10_3 / PPG7 / AN31
60	Supply	Vcc
61	Supply	Vss
62	O	DEBUG I/F
63	H	P17_0
64	C	MD
65	A	X0
66	A	X1
67	Supply	Vss
68	B	P04_0 / X0A
69	B	P04_1 / X1A
70	C	RSTX
71	J	P11_0 / COM0
72	J	P11_1 / COM1 / PPG0_R
73	J	P11_2 / COM2 / PPG1_R
74	J	P11_3 / COM3 / PPG2_R
75	J	P11_4 / SEG0 / PPG3_R
76	J	P11_5 / SEG1 / PPG4_R

Pin no.	I/O circuit type*	Pin name
116	Q	P03_3 / V3 / SEG39 / PPG15_B / SCK5_R
117	M	P03_4 / RX0 / INT4
118	H	P03_5 / TX0
119	H	P03_6 / INT0 / NMI
120	Supply	Vcc

*: See "I/O Circuit Type" for details on the I/O circuit types.

Type	Circuit	Remarks
J		■ CMOS level output ($I_{OL} = 4\text{mA}$, $I_{OH} = -4\text{mA}$) ■ Automotive input with input shutdown function ■ Programmable pull-up resistor ■ SEG or COM output
K		■ CMOS level output ($I_{OL} = 4\text{mA}$, $I_{OH} = -4\text{mA}$) ■ Automotive input with input shutdown function ■ Programmable pull-up resistor ■ Analog input
L		■ CMOS level output ($I_{OL} = 4\text{mA}$, $I_{OH} = -4\text{mA}$) ■ Automotive input with input shutdown function ■ Programmable pull-up resistor ■ Vn input or SEG output

Type	Circuit	Remarks
W		■ CMOS level output (programmable $I_{OL} = 4\text{mA}$, $I_{OH} = -4\text{mA}$ and $I_{OL} = 20\text{mA}$, $I_{OH} = -20\text{mA}$) ■ CMOS hysteresis input with input shutdown function ■ Programmable pull-up resistor ■ Analog input
Y		■ CMOS level output (programmable $I_{OL} = 4\text{mA}$, $I_{OH} = -4\text{mA}$ and $I_{OL} = 20\text{mA}$, $I_{OH} = -20\text{mA}$) ■ Automotive input with input shutdown function ■ Programmable pull-up resistor

9. User ROM Memory Map for Flash Devices

		MB96F6C5		MB96F6C6			
CPU mode address	Flash memory mode address	Flash size 128.5KB + 32KB		Flash size 256.5KB + 32KB			
FF:FFFF _H FF:0000 _H	3F:FFFF _H 3F:0000 _H	SA39 - 64KB		SA39 - 64KB	Bank A of Flash A		
FE:FFFF _H FE:0000 _H	3E:FFFF _H 3E:0000 _H	SA38 - 64KB		SA38 - 64KB			
FD:FFFF _H FD:0000 _H	3D:FFFF _H 3D:0000 _H	Reserved		SA37 - 64KB			
FC:FFFF _H FC:0000 _H	3C:FFFF _H 3C:0000 _H			SA36 - 64KB			
FB:FFFF _H				Reserved			
		Reserved					
DF:A000 _H							
DF:9FFF _H DF:8000 _H	1F:9FFF _H 1F:8000 _H		SA4 - 8KB			SA4 - 8KB	Bank B of Flash A
DF:7FFF _H DF:6000 _H	1F:7FFF _H 1F:6000 _H		SA3 - 8KB			SA3 - 8KB	
DF:5FFF _H DF:4000 _H	1F:5FFF _H 1F:4000 _H		SA2 - 8KB		SA2 - 8KB		
DF:3FFF _H DF:2000 _H	1F:3FFF _H 1F:2000 _H	SA1 - 8KB		SA1 - 8KB			
DF:1FFF _H DF:0000 _H	1F:1FFF _H 1F:0000 _H	SAS - 512B*		SAS - 512B*	Bank A of Flash A		
DE:FFFF _H DE:0000 _H		Reserved		Reserved			

*: Physical address area of SAS-512B is from DF:0000_H to DF:01FF_H.
Others (from DF:0200_H to DF:1FFF_H) is mirror area of SAS-512B.
Sector SAS contains the ROM configuration block RCBA at CPU address DF:0000_H -DF:01FF_H.
SAS cannot be used for E²PROM emulation.

11. Interrupt Vector Table

Vector number	Offset in vector table	Vector name	Cleared by DMA	Index in ICR to program	Description
0	3FC _H	CALLV0	No	-	CALLV instruction
1	3F8 _H	CALLV1	No	-	CALLV instruction
2	3F4 _H	CALLV2	No	-	CALLV instruction
3	3F0 _H	CALLV3	No	-	CALLV instruction
4	3EC _H	CALLV4	No	-	CALLV instruction
5	3E8 _H	CALLV5	No	-	CALLV instruction
6	3E4 _H	CALLV6	No	-	CALLV instruction
7	3E0 _H	CALLV7	No	-	CALLV instruction
8	3DC _H	RESET	No	-	Reset vector
9	3D8 _H	INT9	No	-	INT9 instruction
10	3D4 _H	EXCEPTION	No	-	Undefined instruction execution
11	3D0 _H	NMI	No	-	Non-Maskable Interrupt
12	3CC _H	DLY	No	12	Delayed Interrupt
13	3C8 _H	RC_TIMER	No	13	RC Clock Timer
14	3C4 _H	MC_TIMER	No	14	Main Clock Timer
15	3C0 _H	SC_TIMER	No	15	Sub Clock Timer
16	3BC _H	LVDI	No	16	Low Voltage Detector
17	3B8 _H	EXTINT0	Yes	17	External Interrupt 0
18	3B4 _H	EXTINT1	Yes	18	External Interrupt 1
19	3B0 _H	EXTINT2	Yes	19	External Interrupt 2
20	3AC _H	EXTINT3	Yes	20	External Interrupt 3
21	3A8 _H	EXTINT4	Yes	21	External Interrupt 4
22	3A4 _H	EXTINT5	Yes	22	External Interrupt 5
23	3A0 _H	EXTINT6	Yes	23	External Interrupt 6
24	39C _H	EXTINT7	Yes	24	External Interrupt 7
25	398 _H	EXTINT8	Yes	25	External Interrupt 8
26	394 _H	EXTINT9	Yes	26	External Interrupt 9
27	390 _H	EXTINT10	Yes	27	External Interrupt 10
28	38C _H	EXTINT11	Yes	28	External Interrupt 11
29	388 _H	EXTINT12	Yes	29	External Interrupt 12
30	384 _H	EXTINT13	Yes	30	External Interrupt 13
31	380 _H	EXTINT14	Yes	31	External Interrupt 14
32	37C _H	EXTINT15	Yes	32	External Interrupt 15
33	378 _H	CAN0	No	33	CAN Controller 0
34	374 _H	-	-	34	Reserved
35	370 _H	-	-	35	Reserved
36	36C _H	-	-	36	Reserved
37	368 _H	-	-	37	Reserved
38	364 _H	PPG0	Yes	38	Programmable Pulse Generator 0
39	360 _H	PPG1	Yes	39	Programmable Pulse Generator 1

■ Static Electricity

Because semiconductor devices are particularly susceptible to damage by static electricity, you must take the following precautions:

- (1) Maintain relative humidity in the working environment between 40% and 70%. Use of an apparatus for ion generation may be needed to remove electricity.
- (2) Electrically ground all conveyors, solder vessels, soldering irons and peripheral equipment.
- (3) Eliminate static body electricity by the use of rings or bracelets connected to ground through high resistance (on the level of 1 MΩ).
Wearing of conductive clothing and shoes, use of conductive floor mats and other measures to minimize shock loads is recommended.
- (4) Ground all fixtures and instruments, or protect with anti-static measures.
- (5) Avoid the use of styrofoam or other highly static-prone materials for storage of completed board assemblies.

12.3 Precautions for Use Environment

Reliability of semiconductor devices depends on ambient temperature and other conditions as described above.

For reliable performance, do the following:

- (1) Humidity
Prolonged use in high humidity can lead to leakage in devices as well as printed circuit boards. If high humidity levels are anticipated, consider anti-humidity processing.
- (2) Discharge of Static Electricity
When high-voltage charges exist close to semiconductor devices, discharges can cause abnormal operation. In such cases, use anti-static measures or processing to prevent discharges.
- (3) Corrosive Gases, Dust, or Oil
Exposure to corrosive gases or contact with dust or oil may lead to chemical reactions that will adversely affect the device. If you use devices in such conditions, consider ways to prevent such exposure or to protect the devices.
- (4) Radiation, Including Cosmic Radiation
Most devices are not designed for environments involving exposure to radiation or cosmic radiation. Users should provide shielding as appropriate.
- (5) Smoke, Flame
CAUTION: Plastic molded devices are flammable, and therefore should not be used near combustible substances. If devices begin to smoke or burn, there is danger of the release of toxic gases.

Customers considering the use of Cypress products in other special environmental conditions should consult with sales representatives.

14.2 Recommended Operating Conditions

 ($V_{SS} = AV_{SS} = 0V$)

Parameter	Symbol	Value			Unit	Remarks
		Min	Typ	Max		
Power supply voltage	V_{CC}, AV_{CC}	2.7	-	5.5	V	
		2.0	-	5.5	V	Maintains RAM data in stop mode
Smoothing capacitor at C pin	C_S	0.5	1.0 to 3.9	4.7	μF	1.0 μF (Allowance within $\pm 50\%$) 3.9 μF (Allowance within $\pm 20\%$) Please use the ceramic capacitor or the capacitor of the frequency response of this level. The smoothing capacitor at V_{CC} must use the one of a capacity value that is larger than C_S .

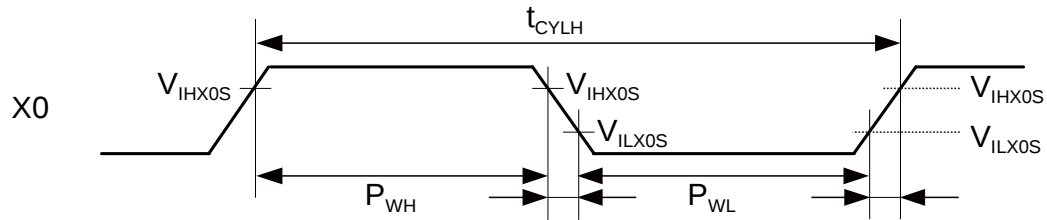
WARNING

The recommended operating conditions are required in order to ensure the normal operation of the semiconductor device. All of the device's electrical characteristics are warranted when the device is operated within these ranges.

Always use semiconductor devices within their recommended operating condition ranges. Operation outside these ranges may adversely affect reliability and could result in device failure. No warranty is made with respect to uses, operating conditions, or combinations not represented on the data sheet. Users considering application outside the listed conditions are advised to contact their representatives beforehand.

Parameter	Symbol	Pin name	Conditions	Value			Unit	Remarks
				Min	Typ	Max		
Power supply current in Timer modes ²	I _{CCTPLL}	VCC	PLL Timer mode with CLKPLL = 32MHz (CLKRC and CLKSC stopped)	-	1800	2250	μA	T _A = +25°C
				-	-	3220	μA	T _A = +105°C
				-	-	4200	μA	T _A = +125°C
	I _{CCTMAIN}		Main Timer mode with CLKMC = 4MHz, SMCR:LPMSS = 0 (CLKPLL, CLKRC and CLKSC stopped)	-	285	330	μA	T _A = +25°C
				-	-	1200	μA	T _A = +105°C
				-	-	2155	μA	T _A = +125°C
	I _{CCTRCH}		RC Timer mode with CLKRC = 2MHz, SMCR:LPMSS = 0 (CLKPLL, CLKMC and CLKSC stopped)	-	160	215	μA	T _A = +25°C
				-	-	1110	μA	T _A = +105°C
				-	-	2065	μA	T _A = +125°C
	I _{CCTRCL}		RC Timer mode with CLKRC = 100kHz (CLKPLL, CLKMC and CLKSC stopped)	-	35	75	μA	T _A = +25°C
				-	-	910	μA	T _A = +105°C
				-	-	1870	μA	T _A = +125°C
	I _{CCTSUB}		Sub Timer mode with CLKSC = 32kHz (CLKMC, CLKPLL and CLKRC stopped)	-	25	65	μA	T _A = +25°C
				-	-	885	μA	T _A = +105°C
				-	-	1845	μA	T _A = +125°C

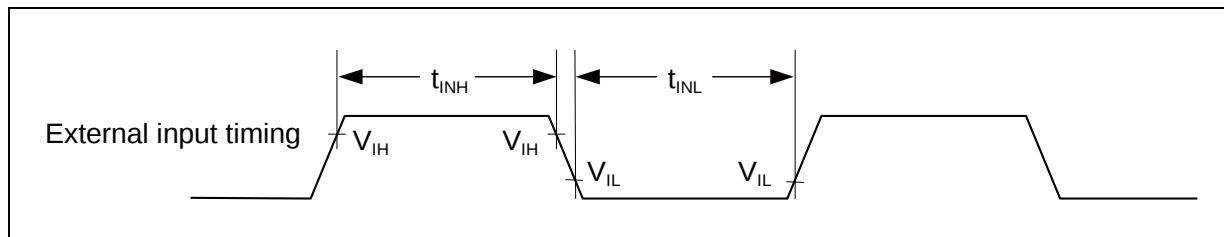
When using the external clock



14.4.9 External Input Timing
 $(V_{CC} = AV_{CC} = 2.7V \text{ to } 5.5V, V_{SS} = AV_{SS} = 0V, T_A = -40^{\circ}C \text{ to } +125^{\circ}C)$

Parameter	Symbol	Pin name	Value		Unit	Remarks
			Min	Max		
Input pulse width	t_{INH}, t_{INL}	Pnn_m	$2t_{CLKP1} + 200$ $(t_{CLKP1} = 1/f_{CLKP1})^*$	-	ns	General Purpose I/O
		ADTG				A/D Converter trigger input
		TINn, TINn_R				Reload Timer
		TTGn				PPG trigger input
		FRCKn, FRCKn_R				Free-Running Timer input clock
		INn, INn_R				Input Capture
		AINn, BINn, ZINn				Quadrature Position/Revolution Counter
		INTn, INTn_R	200	-	ns	External Interrupt
		NMI				Non-Maskable Interrupt

*: t_{CLKP1} indicates the peripheral clock1 (CLKP1) cycle time except stop when in stop mode.



14.4.10 I²C Timing

(V_{CC} = AV_{CC} = 2.7V to 5.5V, V_{SS} = AV_{SS} = 0V, T_A = - 40°C to + 125°C)

Parameter	Symbol	Conditions	Typical mode		High-speed mode**		Unit
			Min	Max	Min	Max	
SCL clock frequency	f _{SCL}	C _L = 50pF, R = (V _p /I _{OL}) ^{*1}	0	100	0	400	kHz
(Repeated) START condition hold time SDA ↓ → SCL ↓	t _{HDSTA}		4.0	-	0.6	-	μs
SCL clock "L" width	t _{LOW}		4.7	-	1.3	-	μs
SCL clock "H" width	t _{HIGH}		4.0	-	0.6	-	μs
(Repeated) START condition setup time SCL ↑ → SDA ↓	t _{SUSTA}		4.7	-	0.6	-	μs
Data hold time SCL ↓ → SDA ↓ ↑	t _{HDDAT}		0	3.45 ^{*2}	0	0.9 ^{*3}	μs
Data setup time SDA ↓ ↑ → SCL ↑	t _{SUDAT}		250	-	100	-	ns
STOP condition setup time SCL ↑ → SDA ↑	t _{SUSTO}		4.0	-	0.6	-	μs
Bus free time between "STOP condition" and "START condition"	t _{BUS}		4.7	-	1.3	-	μs
Pulse width of spikes which will be suppressed by input noise filter	t _{SP}	-	0	(1-1.5) × t _{CLKP1} ^{*5}	0	(1-1.5) × t _{CLKP1} ^{*5}	ns

*1: R and C_L represent the pull-up resistance and load capacitance of the SCL and SDA lines, respectively.

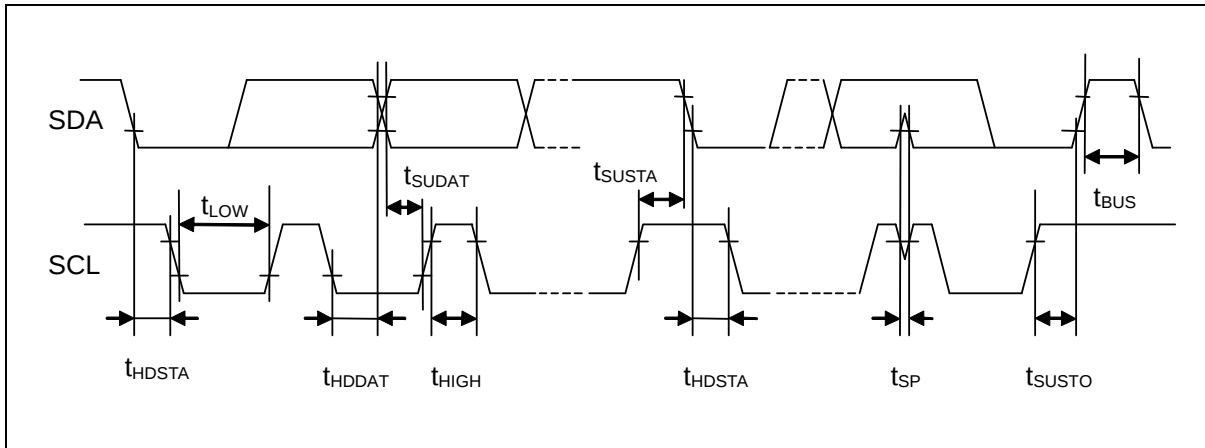
V_p indicates the power supply voltage of the pull-up resistance and I_{OL} indicates V_{OL} guaranteed current.

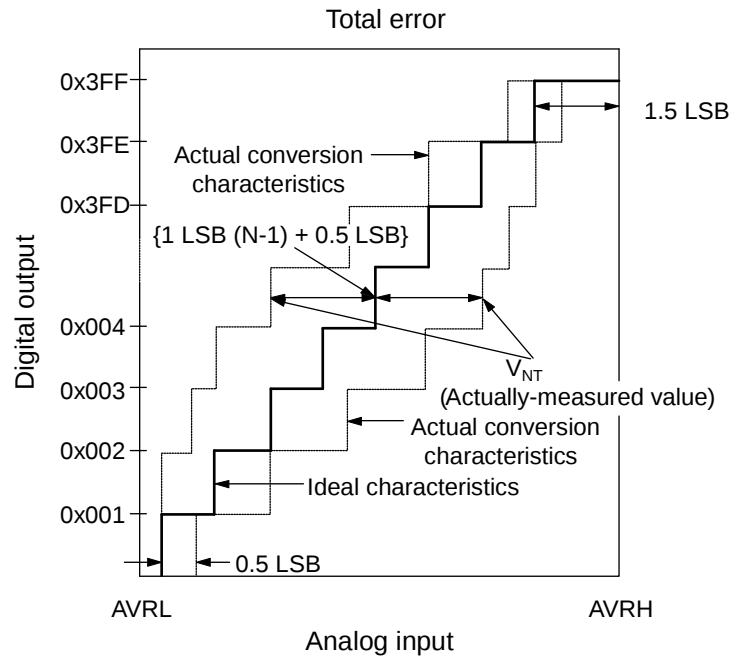
*2: The maximum t_{HDDAT} only has to be met if the device does not extend the "L" width (t_{LOW}) of the SCL signal.

*3: A high-speed mode I²C bus device can be used on a standard mode I²C bus system as long as the device satisfies the requirement of "t_{SUDAT} ≥ 250ns".

*4: For use at over 100kHz, set the peripheral clock1 (CLKP1) to at least 6MHz.

*5: t_{CLKP1} indicates the peripheral clock1 (CLKP1) cycle time.





$$1\text{LSB (Ideal value)} = \frac{AVRH - AVRL}{1024} [V]$$

$$\text{Total error of digital output } N = \frac{V_{NT} - \{1\text{LSB} \times (N - 1) + 0.5\text{LSB}\}}{1\text{LSB}}$$

N : A/D converter digital output value.

V_{NT} : Voltage at which the digital output changes from $0x(N + 1)$ to $0xN$.

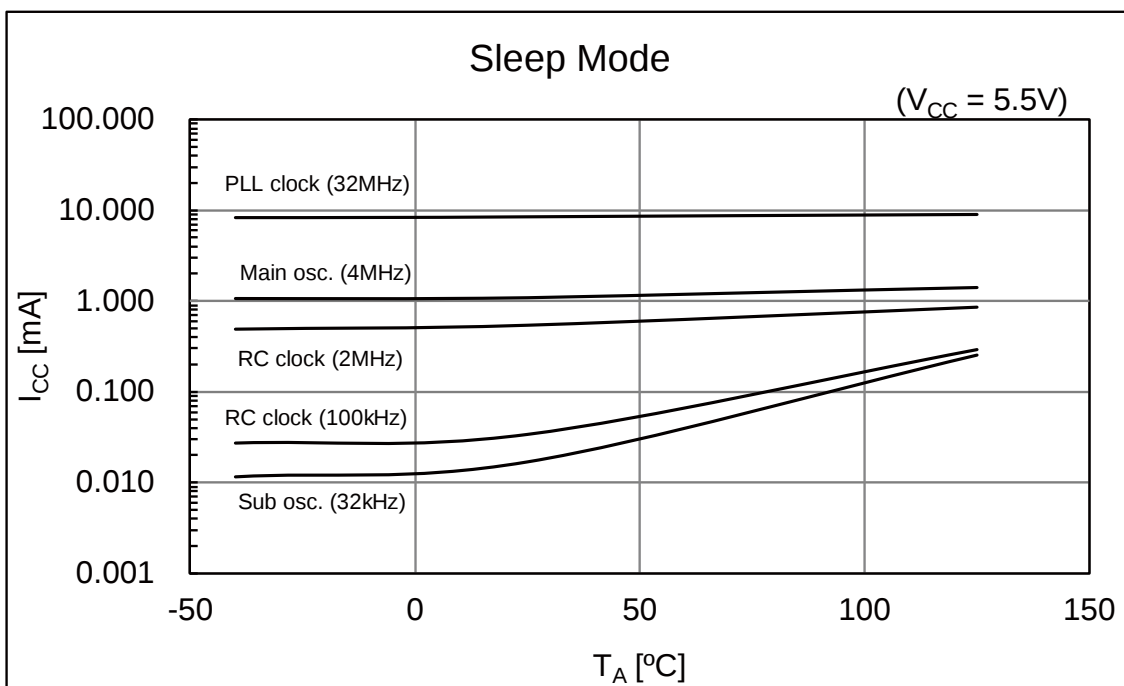
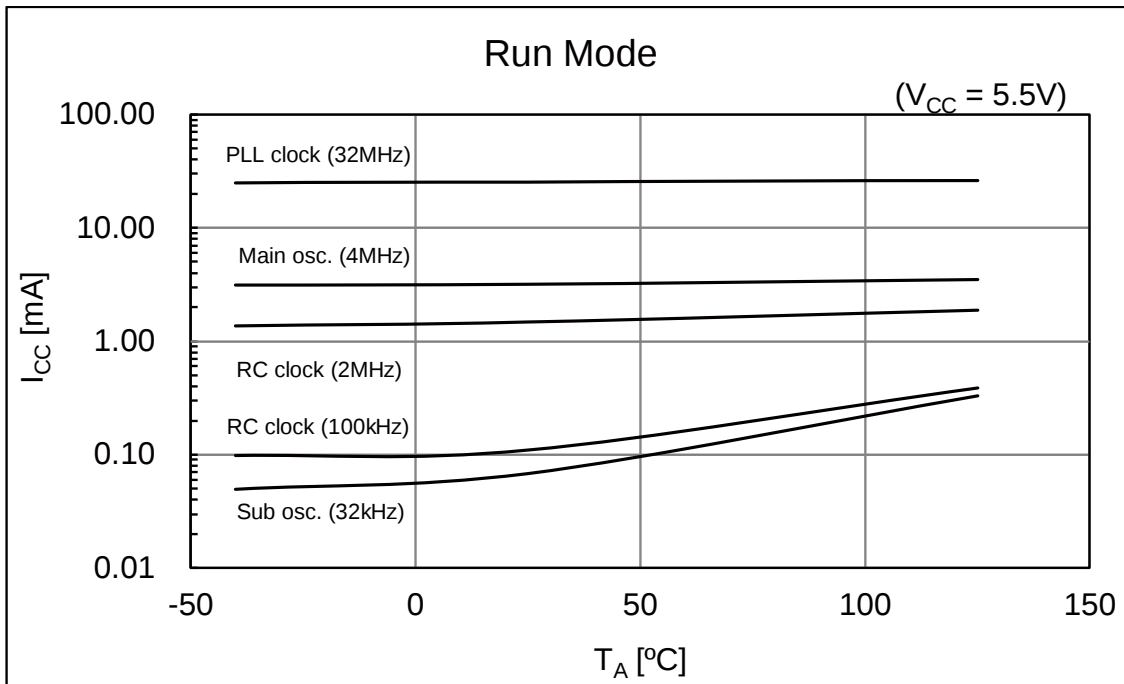
V_{OT} (Ideal value) = $AVRL + 0.5\text{LSB}[V]$

V_{FST} (Ideal value) = $AVRH - 1.5\text{LSB}[V]$

15. Example Characteristics

This characteristic is an actual value of the arbitrary sample. It is not the guaranteed value.

MB96F6C6



16. Ordering Information

MCU with CAN controller

Part number	Flash memory	Package*
MB96F6C5RBPMC-GSE1	Flash A (160.5KB)	120-pin plastic LQFP (FPT-120P-M21)
MB96F6C5RBPMC-GSE2		
MB96F6C6RBPMC-GSE1	Flash A (288.5KB)	120-pin plastic LQFP (FPT-120P-M21)
MB96F6C6RBPMC-GSE2		

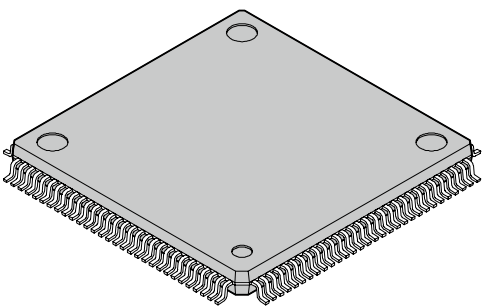
*: For details about package, see "Package Dimension".

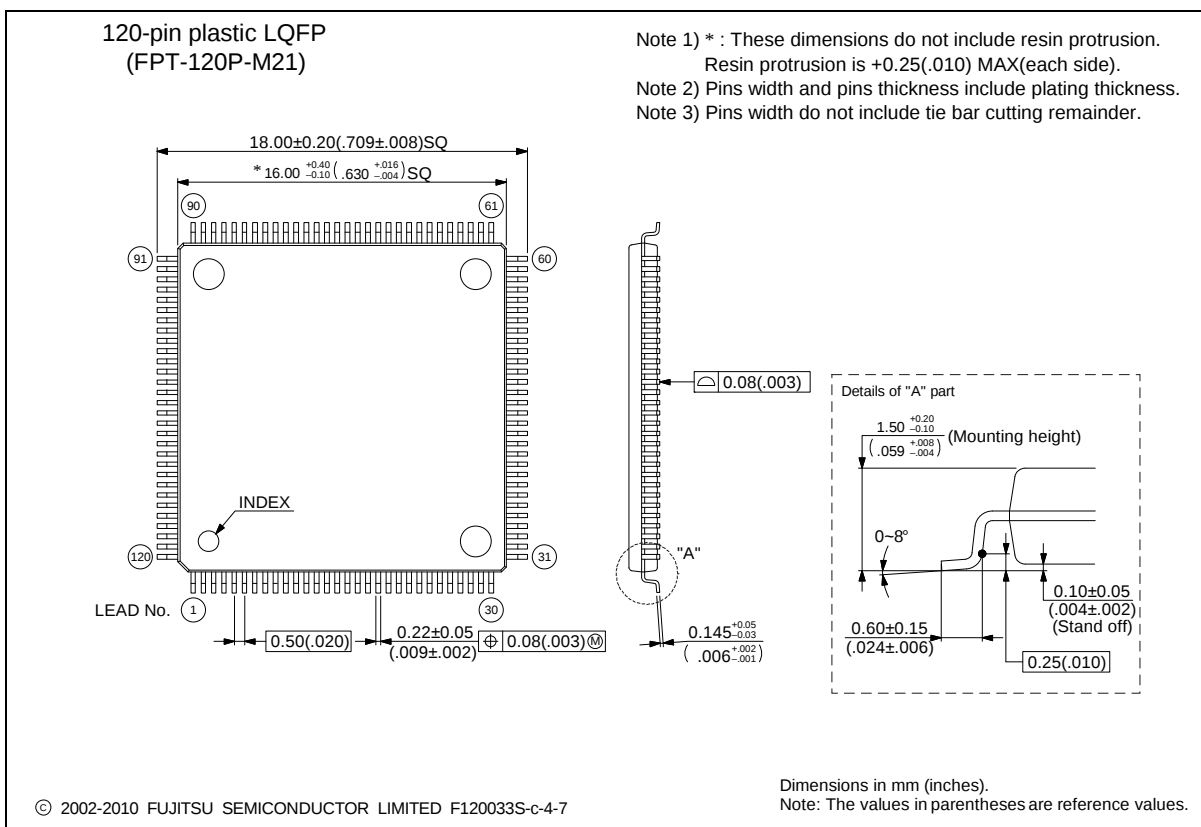
MCU without CAN controller

Part number	Flash memory	Package*
MB96F6C5ABPMC-GSE1	Flash A (160.5KB)	120-pin plastic LQFP (FPT-120P-M21)
MB96F6C5ABPMC-GSE2		

*: For details about package, see "Package Dimension".

17. Package Dimension

120-pin plastic LQFP  (FPT-120P-M21)	Lead pitch	0.50 mm
	Package width × package length	16.0 × 16.0 mm
	Lead shape	Gullwing
	Sealing method	Plastic mold
	Mounting height	1.70 mm MAX
	Weight	0.88 g
	Code (Reference)	P-LFQFP120-16×16-0.50



18. Major Changes

Spanion Publication Number: MB966C0_DS704-00014-2v1-E

Page	Section	Change Results
Revision 1.0		
-	-	Initial release
Revision 2.0		
42	Electrical Characteristics DC Characteristics Current Rating	Changed the Value of "Power supply current in Timer modes" I_{CCTPLL} Typ: 2485 μ A $\rightarrow$ 1800 μ A ($T_A = +25^\circ\text{C}$) Max: 2715 μ A $\rightarrow$ 2250 μ A ($T_A = +25^\circ\text{C}$) Max: 4095 μ A $\rightarrow$ 3220 μ A ($T_A = +105^\circ\text{C}$) Max: 5055 μ A $\rightarrow$ 4200 μ A ($T_A = +125^\circ\text{C}$)
Revision 2.1		
-	-	Company name and layout design change

NOTE: Please see "Document History" about later revised information.

Document History

Document Title: MB966C0 Series F2MC-16FX 16-bit Microcontroller

Document Number: 002-04723

Revision	ECN	Orig. of Change	Submission Date	Description of Change
**	—	KSUN	01/31/2014	Migrated to Cypress and assigned document number 002-4723. No change to document contents or format.
*A	5168020	KSUN	03/29/2016	Updated to Cypress template