

Total Solution of Touch

# Semiconductor Catalog

| 2024 V1.0



**TOUCHCORE**  
최적의 정전용량  
터치IC

**AS-MCU**  
최적의 맞춤형 MCU

**MCU**  
누적 판매  
10억 개 이상

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# 01 Touch TouchCore Family

★ AEC-Q100   ★ Star Product

Product	FLASH [Byte]	RAM [Byte]	VOLT [V]	Freq. [MHz]	T/C	COM I/O	ADC (bit x ch)	PWM (bit x ch)	Touch Channel	Active Current	Sleep Current	Package
TC301M	16K	1.25K + 256	2.40 ~ 5.50	27	2	1 I2C	-	-	1	1.0mA	1.4uA	6-DFN
★ TC303M	16K	1K	2.30 ~ 5.50	27	2	1 I2C	-	-	2	1.0mA	1.4uA	10-DFN
★ TC304M	16K	1K	2.20 ~ 5.50	25	2	1 I2C	-	8 x 4	4	1.3mA	2.0uA	16-QFN
★ TC308M									8			
★ TC316M	16K	1K	2.20 ~ 5.50	25	2	1 I2C 1 SPI 1 UART	-	8 x 8	16	1.3mA	2.0uA	24-QFN
★ TC316M-EP												28-TSSOP
★ TC800A	64K	1.7K + 256	2.35 ~ 5.50	25 (Max. 48)	3	2 I2C 1 SPI 2 UART	12 x 12	8 x 8	24	1.5mA	5.0uA	68-QFN
★ TC800B-EP							12 x 9					48-QFN
★ TC801A							22					

## 02

Touch  
TouchCore Family

★ Star Product

Product	FLASH [Byte]	RAM [Byte]	VOLT [V]	Freq. [MHz]	T/C	COM I/O	ADC (bit x ch)	PWM (bit x ch)	Touch Channel	Active Current	Sleep Current	Package
★ TC8000	256K	32K	2.35 ~ 5.50	44 (Max. 66)	6	2 I2C 1 SPI 5 UART	12 x 9	10 x 6 10 x 8	30	4.0mA	5.0uA	68-QFN
							12 x 16	10 x 8 10 x 8 10 x 2	48			100-QFN
TC300K	16K	768 + 256	1.75 ~ 3.60	25	2	1 I2C	-	8 x 4	8	1.5mA	3.0uA	16-QFN
★ TC305K									8 (Fine tune)			
★ TC308K									4			
★ TC350K			8K	16-QFN 16-TSSOP								
★ TC354K			16K						1.80 ~ 3.60			
TC358K	8	16-QFN										



## 03

Touch  
TouchCore Family

★ Star Product

Product	FLASH [Byte]	RAM [Byte]	VOLT [V]	Freq. [MHz]	T/C	COM I/O	ADC (bit x ch)	PWM (bit x ch)	Touch Channel	Active Current	Sleep Current	Package
TC360LA	12K (EEPROM 1K)	512 + 256	1.80 ~ 3.60	48	3	1 I2C 1 UART	-	8 x 3	7	1.0mA	40.0uA	16-QFN
TC370L	12K					1 I2C						
TC350	8K (EEPROM 1K)	512 + 256	2.70 ~ 3.60	48	3	1 I2C 1 UART	-	8 x 4	8	1.0mA	60uA	16-MLF
TC351							12 x 2					
TC370	12K (EEPROM 1K)					-	24-MLF					
TC380	16K (EEPROM 1K)					12 x 16		28-TSSOP				
★ TC390	32K (EEPROM 1K)	1K + 256	2 I2C 1 SPI 1 UART	8 x 12	16	32-MLF						
				12 x 24			24	32-QFN				

## 04

# Touch TouchCore Logic Family

★ Star Product

Product	FLASH [Byte]	RAM [Byte]	VOLT [V]	Freq. [MHz]	T/C	COM I/O	ADC (bit x ch)	PWM (bit x ch)	Touch Channel	Active Current	Sleep Current	Package
TC303M-DFN10	16K	1K	2.30 ~ 5.50	27	2	1 I2C	-	-	2	1.0mA	1.4uA	10-DFN
TC308M-QFN16	16K	1K	2.50 ~ 5.50	24	2	1 I2C	-	-	4	1.3mA	2.0uA	16-QFN

Product	FLASH [Byte]	RAM [Byte]	VOLT [V]	Freq. [MHz]	T/C	COM I/O	Application Screen Size	Touch Channel	Active Current	Sleep Current	Package
TC310SB	32K (EEPROM 1K)	2K + 256	1.8 ~ 3.6	48	3	1 I2C 1 UART	≤ 3.5"	24	2.7mA	36uA	32-QFN
★ TC320SB	16K (EEPROM 1K)							16			24-QFN
TC330SB											24-MLF

# 05 MCU MiDAS Family

★ AEC-Q100    ★ Star Product

Product (Family / Series)		FLASH [Byte]	EEPROM [Byte]	RAM [Byte]	VOLT [V]	Freq. [MHz]	T/C	COM I/O	LCD (COM x SEG)	ADC (bit x ch)	PWM (bit x ch)	I/O Pins	Package
MIDAS500	GC500	32K	(1K)	1K + 256	2.70 ~ 3.60	48	3	2 I2C 1 SPI 1 UART	-	12 x 16	8 x 10	24	28-TSSOP
	GC510	16K								12 x 24	8 x 12	29	32-MLF
	GC520	8K											
★ MIDAS800	GC800A	64K	-	1.7K + 256	2.35 ~ 5.50	25 (Max. 48)	3	2 I2C 1 SPI 2 UART	4 x 36	12 x 12	8 x 8	56	68-QFN
	★ GC800B-EP								4 x 28	12 x 9		42	48-QFN
	GC801A								4 x 26				
★ MIDAS8000	GC8000	256K	-	32K	2.35 ~ 5.50	44 (Max. 66)	6	2 I2C 1 SPI 5 UART	4 x 32	12 x 9	10 x 6 10 x 8	56	68-QFN
									4 x 44	12 x 16	10 x 8 10 x 8 10 x 2	87	100-QFN

## 06

MCU  
MiDAS Family

★ Star Product

Product (Family / Series)		FLASH [Byte]	EEPROM [Byte]	RAM [Byte]	VOLT [V]	Freq. [MHz]	T/C	COM I/O	LCD (COM x SEG)	ADC (bit x ch)	PWM (bit x ch)	I/O Pins	Package
★ MiDAS220	GC220	8K	(128)	128	2.20 ~ 5.50	12 (Max. 24)	2	1 I2C 1 UART	-	10 x 16	10 x 1	18	20-TSSOP
	GC221	4K								10 x 12		14	16-SOP
										10 x 4		6	8-SOP
	GC222	2K								10 x 16		18	20-TSSOP
★ MiDAS230	GC230	2K	(128)	128	2.40 ~ 5.50	12 (Max. 24)	2	-	-	10 x 8	8 x 1	14	16-TSSOP
										10 x 12		18	20-SOP
										10 x 3		6	8-SOP

# 07 MCU MiDAS Family

★ Star Product

Product (Family / Series)		FLASH [Byte]	EEPROM [Byte]	RAM [Byte]	VOLT [V]	Freq. [MHz]	T/C	COM I/O	LCD (COM x SEG)	ADC (bit x ch)	PWM (bit x ch)	I/O Pins	Package
★ MiDAS1.0B	GC89C521A0	8K	(1K)	512	2.20 ~ 5.50	6	3	1 I2C 1 SPI 1UART	-	10 x 32	8 x 16	40	44-MQFP
										10 x 24	8 x 12	30	32-QFN
										10 x 22	8 x 10	26	28-SOP
MiDAS3.0	GC89L591A0	64K	(2K)	16K + 256	1.60 ~ 2.00 (Core)	80	3	1 I2C 2UART	-	10 x 32 10 x 21	8 x 12 or 16 x 6	32 21	44-MQFP 32-QFN
	GC89L581A0	32K			3.00 ~ 3.60 (I/O)						8 x 6 or 16 x 3		
	GC89L541A0	16K											

## 08

## MCU

## ATOM Logic Family

★ Star Product

Product	MTP [Byte]	FLASH [Byte]	EEPROM [Byte]	RAM [Nibble]	VOLT [V]	Freq. [MHz]	WDT	REM Output	IR LED Driver TR	Package
ATOM1.1	-	1K	(128)	64	1.80 ~ 5.50	10	1	1	1	20-SOP 16-TSSOP
ATOM120	4K	-	-	48	1.20 ~ 3.60	4	1	1	1	
★ ATOM130	4K	-	-	48	1.80 ~ 3.60	4	1	1	1	16-SOP

## 09

**SYSTEM IC**  
**SecurityCore Family**

## Application Specific MCU for Security System

Product	Features	VOLT [V]	I2C	Package
<b>SecurityCore4.1</b>	Application Specific MCU for Security System	2.70 ~ 5.50	100KHz	8-SOP
<b>SecurityCore5.0</b>	Application Specific MCU for Security System	2.20 ~ 5.50	100KHz	8-SOP

# 10 SYSTEM IC

## ChargerCore Family

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Application Specific MCU for Control

Product	FLASH [Byte]	EEPROM [Byte]	RAM [Byte]	VOLT [V]	Freq. [MHz]	T/C	WDT	ADC (bit x ch)	PWM (bit x ch)	Contr.	Package
<b>ChargerCore300</b>	2K	(128)	128	2.40 ~ 5.50	12 (24)	2	1	10 x 8	8 x 1	OVP CC-CV	20-TSSOP



# 11 SYSTEM IC CICore Family

## Common Interface Controller for STB Application

Product	Features	TYPE	Others	Package
<b>CICore1.0</b>	Common Interface Controller for STB system	Processing One MPEG Stream	I2C CI Standard	128-PQFP
<b>CICore2.0</b>		Processing Two MPEG Streams		160-LQFP

# 12 SYSTEM IC

## RingCore Family

### Application Specific MCU for Vibration Control

Product	Actuator Support	Output Resonant Frequency	PWM Input Frequency	Wake-Up Time	Output Offset	Active Current (PWM Duty 50%)	Stand-by Current	Auto Tuning	Package
<b>RingCore200</b>	LRA, ERM	80Hz < 390Hz	10KHz < 50KHz	1ms after EN	Typ. 50mV	~5mA	~1uA	-	8-DFN
<b>RingCore220</b>	LRA, ERM	80Hz < 390Hz	10KHz < 50KHz	1ms after EN	Typ. 50mV	~5mA	~1uA	Support	10-DFN

# 13 SYSTEM IC ResetCore Family

## Voltage Detector-Reset IC

Product	VOLT [V]	Supply Current	RESETB Signal Generation Starting Voltage [V]			RESETB Output Voltage, High	RESETB Output Voltage, Low	Package
			Min.	Typ.	Max.			
ResetCore250	1.60 ~ 5.50	Max. 30uA	2.40	2.50	2.60	Min. 0.7V <sub>DD</sub>	Max. 0.3V <sub>DD</sub>	SOT-23
ResetCore270			2.60	2.70	2.80			
ResetCore290			2.80	2.90	3.00			
Others	ResetCore170 / 190 / 210 / 230 / 310 / 330 / 370 / 390 / 410 / 430 / 450							

## 함께 성장하는 코아리버가 되겠습니다.

반도체 원천기술을 기반으로 웹&앱, IOT 등 솔루션을 응용 발전하여 국내 대기업 공급은 물론 수출하는 IT 전문 회사이며 직원 100+/-명, 매출 200억 규모의 신뢰할 수 있는 회사입니다.



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