

Type No.	Maker	KEC	Type No.	Maker	KEC	Type No.	Maker	KEC
AN1324	Panasonic	KIA324P/F	M5F7900	Renesas	KIA7900PI	TD62501~7P	Toshiba	KID65501~7P
AN1393/S	Panasonic	KIA393P/F	MB4213	Shindengen	KIA6988P	TD62783AP/AF	Toshiba	KID65783AP/AF
AN1431T	Panasonic	KIA431	MC1455/D	Onsemi	KIA555P/F	TL431	Onsemi	KIA431/F/A/AF
AN4558/S	Panasonic	KIA4558P/F	MC34063AP/AD	Onsemi	KIA34063A/AF	TL431	TI	KIA431/F/A/AF
AN6553/S	Panasonic	KIA4559P/F	MC34119P/D	Onsemi	KIA6419P/F	TL494	Onsemi	KIA494AP/AF
AN6612/S	Panasonic	KIA6901P/F	MC4558C	Onsemi	KIA4558P/S/F	TLV431LP	TI	KIA2431P/AP/BP
AN6650/S	Panasonic	KIA6901P/F	MC7805-24CT	Onsemi	KIA7805~24API	TLV431DBV	TI	KIA2431T/AT/BT
AN6651	Panasonic	KIA6903P	MC78L05-24AC/C	Onsemi	KIA78S05~24P	UDN2981A	Sprague	KID65783AP
AN6912/S	Panasonic	KIA339P/F	MC7900CT	Onsemi	KIA7900PI	ULN2001~4A	Onsemi	KID65001~4AP
AN7805-24	Panasonic	KIA7805-24API	MJM2901D/M	JRC	KIA339P/F	ULN2803/4	Onsemi	KID65083/84AP
AN78L05-24	Panasonic	KIA78S05-24P	MN1280	Panasonic	KIA7019~45AP/AF	XC74UL08AA	Torex	KIC7SH08FU
AN7900F	Panasonic	KIA7900PI	NC7S04P5X	Fairchild	KIC7SH04FU	μA431	NEC	KIA431/F/A/AF
AS431LAN/AMI	Alpha	KIA431BP/BF	NC7S08P5X	Fairchild	KIC7SH08FU	μA7805~24	NEC	KIA7805-24API
BA033~15FP	Rohm	KIA78D33~15F	NJM431L/U	JRC	KIA431/F/A/AF	μA7900C	NEC	KIA7900PI
BA222	Rohm	KIA555P/F	NJM555D/M	JRC	KIA555P/F	μA7900CKC	NEC	KIA7900PI
BA223	Rohm	KIA555P/F	NJM22360AD/AM	NJRC	KIA34063A/AF	μP2A2981C	NEC	KID65783AP
BA4558/F/N	Rohm	KIA4558P/F	NJM2614D	NJRC	KIA6987P	μP3C24C	NEC	KIA324P/F
BA6220	Rohm	KIA6903P	NJM2902D	JRC	KIA324P/F	μP3C39C/G	NEC	KIA393P/F
BA6235/F	Rohm	KIA6901P/F	NJM2903D/M	JRC	KIA393P/S/F	μP3C393C/G	NEC	KIA393P/F
BA10324/F	Rohm	KIA324P/F	NJM4558D/S/M	JRC	KIA4558P/S/F	μP3C494/C	NEC	KIA494AP/AF
BA10339/F	Rohm	KIA339P/F	NJM4559D/S/M	JRC	KIA4559P/S/F	μP3C1093J/T	NEC	KIA431/F/A/AF
BA10358/F/N	Rohm	KIA358P/F	NJM78xxDLA	NJRC	KIA78xxAF	μP3C1555C	NEC	KIA555P/F
BA10393/F/N	Rohm	KIA393P/F	NJM7900A/FA	JRC	KIA7900PI	μP3C4558C/G	NEC	KIA4558P/F
HA17431P/UA	Renesas	KIA431/F	PQ3RD13	Sharp	KIA78R33API	μP3C4559C/G	NEC	KIA4559P/F
KA278R**	Fairchild	KIA278R**PI	PQ3RD23	Sharp	KIA278R33PI	μP3C78050~24A	NEC	KIA7805~24API
KA34063A/AD	Fairchild	KIA34063A/AF	PQ3RF23	Sharp	KIA278R33PI	μP3C78L05~15J	NEC	KIA78L05~15F
KA8602F	Fairchild	KIA6419F	PQ**RF11	Sharp	KIA78R05~15PI	μP3C78M05~24A	NEC	KIA78M05~24PI
KA78R**	Fairchild	KIA78R**PI	PQ**RF21	Sharp	KIA278R**PI	μP3C7900A	NEC	KIA7900PI
L5431	Sanyo	KIA431	PST523	Mitsumi	KIA7019~45AP/AF	BA**SFP	Rohm	KIA78R**F
L78M00T	Sanyo	KIA78M00PI	PST524	Mitsumi	KIA7019~45AP/AF	PQ**TZ*1	Sharp	KIA78R**F
L79M00T	Sanyo	KIA79M00PI	SN74AHCT1G**	TI	KIC7S**FU	PQ**RF33	Sharp	KIA378R**PI
LA5527	Sanyo	KIA6901P	TA31001P/F	Toshiba	KIA6401P/F	KA378R**	Fairchild	KIA378R**PI
LA5528	Sanyo	KIA6901P	TA31002P/F	Toshiba	KIA6402P/F	OZ960	O <sub>2</sub> Micro	KIB3812FT
LA6324N/NM	Sanyo	KIA324P/F	TA75339P	Toshiba	KIA339P	LM1117MPX/DTX/T**	N/S	KIA1117F/PI**
LA6339/M	Sanyo	KIA339P/F	TA75393P	Toshiba	KIA393P	LD1117S/DT/V**	STM	KIA1117F/PI**
LA6358N/NM	Sanyo	KIA358P/F	TA75558P	Toshiba	KIA4558P/F	FAN1117ASX/ADX/AT**	Fairchild	KIA1117F/PI**
LA6393D/M	Sanyo	KIA393P/F	TA75559P	Toshiba	KIA4559P/F	LM1086IS/IT**	N/S	KIA1578Q***FP/PI
LA6458/D/M	Sanyo	KIA4558P/F	TA7555P/F	Toshiba	KIA555P/F	LD1086D2T/V**	STM	KIA1578Q***FP/PI
LA8501	Sanyo	KIA6401P/F	TA75S01F	Toshiba	KIA75S358F	FAN1086MX	Fairchild	KIA1578Q***FP
LB1211	Sanyo	KID65501P	TA75S393F	Toshiba	KIA75S393F	TLV431A	Onsemi	KIA2431AT/AP
LB1212	Sanyo	KID65502P	TA75S558F	Toshiba	KIA75S558F	TA76432FC/S	Toshiba	KIA2431AT/AP
LB1213/M	Sanyo	KID65503P/F	TA76431S/F	Toshiba	KIA431/F	RC431AM/AT	Fairchild	KIA2431AT/AP
LB1214	Sanyo	KID65504P	TA76494P	Toshiba	KIA494AP/AF	TS4321ILT	STM	KIA2431AS
LB1215	Sanyo	KID65505P	TA7805~24S/SB	Toshiba	KIA7805~24API	MIC5219-***BM5	Micrel	KR52S***M
LB1216	Sanyo	KID65506P	TA78xxF	Toshiba	KIA78xxAF	PQ**DZ1*	Sharp	KIA78R**F
LB1217	Sanyo	KID65507P	TA78DL05~15S	Toshiba	KIA78DL05~15PI	PQ***EZ5MZ*	Sharp	KIA78RM***F
LB1231	Sanyo	KID65001AP	TA78DLxxAF	Toshiba	KIA78DLxxF	PQ***EZ01Z*	Sharp	KIA78R***F
LB1232	Sanyo	KID65002AP	TA78DS05BP	Toshiba	KIA78DS05BP	PQ05RA11	Sharp	KIA78R050PI
LB1233	Sanyo	KID65003AP	TA78L005~24AP/F	Toshiba	KIA78L05~24BP/F	PQ30RV11	Sharp	KIA78R000PI
LB1234	Sanyo	KID65004AP	TA78L05~24S	Toshiba	KIA78S05~24P	PQ30RV21	Sharp	KIA278R00PI
LB8555D/M	Sanyo	KIA555P/F	TA78M05~24S/SB	Toshiba	KIA78M05~24PI	PQ30RV31	Sharp	KIA378R00PI
LM324/N	Onsemi	KIA324P/F	TA79005~24S/SB	Toshiba	KIA7905~24PI	BA**BC0FP/T	Rohm	KIA78D***F/PI
LM336	N/S	KIA431/F/A/AF	TA79L05~24P/F	Toshiba	KIA79L05~24BP/F	BA**BC0FP/T	Rohm	KIA78D**F/PI
LM339/N	N/S	KIA339P/F	TA79M05~24S/SB	Toshiba	KIA79M05~24PI	BA**BC0WFP/WT	Rohm	KIA78R**F/PI
LM358	Onsemi	KIA358P/F	TC7S**FU	Toshiba	KIC7S**FU	BA**BC0WFP/WT	Rohm	KIA78R***F/PI
LM393/N	N/S	KIA393P/F	TC7SZ**FU	Toshiba	KIC7SZ**FU	BA178**FP/T	Rohm	KIA78**AF/API
LM555/CN	Renesas	KIA555P/F	TC7WZ**FK	Toshiba	KIC7WZ**FK	BA178M**FP/T	Rohm	KIA78M**F/PI
LM7900CT	N/S	KIA7900PI	TC7SH04FU	Toshiba	KIC7SH04FU	SC604***	Semtech	KAC3301QN
M51943	Renesas	KIA7042AP/AF	TC7SH08FU	Toshiba	KIC7SH08FU	LT1937	Linear	KIB3401F
M51944	Renesas	KIA7442P/F	TC7W**FK	Toshiba	KIC7W**FK	LM2733	N/S	KIB3450T
M51957B	Renesas	KIA7125F/FV	TD62001~4P/AP	Toshiba	KID65001~4AP	MAX8**	Maxim	KIC352*SB
M54523P	Renesas	KID65003AP	TD62083AP/AF	Toshiba	KID65083AP/AF			
M54563P	Renesas	KID65783AP	TD62084AP/AF	Toshiba	KID65084AP/AF			

## General Core

### ■ MiDAS Families (8-bit Turbo 80C52-Based General Core)

Product (Family/Series)		Mask-Rom (Byte)	Flash (Byte)	EEPROM (Byte)	EPROM (Byte)	RAM (Byte)	Volt (V)	Freq. (MHz)	T/C (16bits)	Serial I/O	WDT	ADC (bit × ch)	PWM (bit × ch)	Package	Others	Available time
MIDAS1.0	KIM87C520A0	-	-	-	8K	256	2.7~5.5	40 (20)	3	1UART	1	9 × 4	8 × 2	44-PLCC/MQFP 40-DIP 28-DIP/FLP	LVD POR	NOW
	KIM81C520A0	8K	-	-	-											
	KIM80C320A0	ROMless														
MIDAS 1.1	KIM87C510A0	-	-	-	4K	128	2.4~5.5	20 (10)	2	1UART	1	10 × 12 or 10 × 3	8 × 1	20-DIP/FLP 16-DIP/FLP 8-DIP/FLP	LVD POR RING OSC	NOW
	KIM87C510A1	-	-	-	4K											
	KIM81C510A0	4K	-	-	-											
	KIM81C510A1	4K	-	-	-	128	2.4~5.5									
	KIM81C500A0	2K	-	-	-											
	KIM81C500A1	2K	-	-	-											
MIDAS 2.0	KIM89C591A0		62K	2K	-	2K	3.0~3.6	40	3	2UART	1	10 × 8	8 × 12	100,80-TQFP 64-LQFP/DIP 44-MQFP/PLCC	ISP/IAP EJTAG LVD POR RING OSC	NOW
	KIM81C591A0	62K		2K	-											
	KIM89C581A0		30K	2K	-											
	KIM81C581A0	30K		2K	-											
	KIM89C541A0		14K	2K	-											
	KIM81C541A0	14K		2K	-											
MIDAS 2.1	KIM89C520A0	-	7K	1K	-	512	2.2~5.5	20 (12)	2	1UART	1	10 × 28 10 × 24 10 × 20	8 × 1	32-LQFP 28-DIP/FLP	ISP/IAP I <sup>2</sup> C EJTAG LVD POR RING OSC	NOW
MIDAS 2.2	KIM89C510A0	-	4K	60	-	128	2.2~5.5	20 (10)	2	1UART	1	10 × 28	8 × 1	32-LQFP 28-FLP 20-DIP/FLP 16-DIP/FLP 8-DIP/FLP	ISP/IAP LVD POR RING OSC	'06.Q3
	KIM89C501A0	-	1K	60	-	32						10 × 12				

### ■ Titan Family (32-bit ARM-Based General Core)

Product (Family/Series)		Mask-Rom (Byte)	Flash (Byte)	EEPROM (Byte)	EPROM (Byte)	RAM (Byte)	Volt (V)	Freq. (MHz)	T/C (16bits)	Serial I/O	WDT	ADC (bit × ch)	PWM (bit × ch)	Package	Others	Available time
Titan 1.0	KIM320C910A0 (ARM926EJ)		ROMless			128K	2.5~3.3	150	4	4UART 2 SPI I <sup>2</sup> C	1	10 × 4	8 × 4	256-QFP	USB 2.0 JTAG PLL	'06.Q3

► AS-MCU(Application-Specific MCU)

■ **Charger Core Family (Application-Specific MCU for Battery Charger)**

Product	Feature	Volt (V)	Package	Others	Available time
Charger Core 1.0	Optimized AS-MCU (Application-Specific MCU) for Battery charger Application	2.7~5.5	8-FLP	LVD FOR RING OSC	Now

■ **RoboCore Family (Application-Specific MCU for Robot Control)**

Product	Flash (Byte)	EEPROM (Byte)	RAM (Byte)	Volt (V)	Freq. (MHz)	T/C (16bits)	Serial I/O	WDT	ADC (bit × ch)	PWM (bit × ch)	I/O Pin	Package	Others	Available time
Robo Core 1.0	7K	1K	512	2.2~5.5	20 (12)	2	IUART	1	10 × 23	8 × 1	25	32-MLF	ISP/IAP EJTAG LVD, POR RING OSC Monitor Driver for Robot	Now

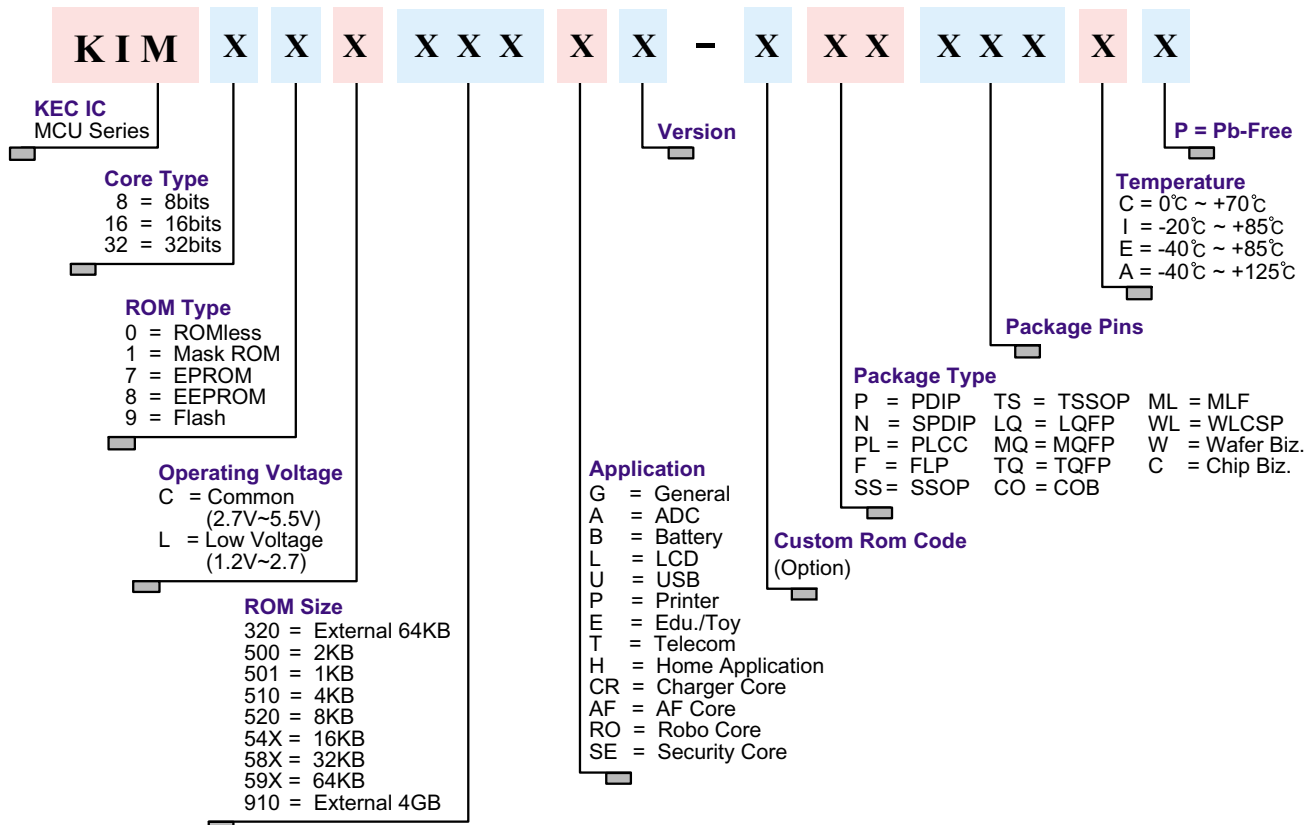
■ **AFCore Family (Application-Specific MCU for Auto Focusing in Control in a Camera Phone)**

Product	Feature	Volt (V)	Package	Others	Available time
AF Core 1.0	Optimized AS-MCU (Application-Specific MCU) for Auto focusing control in camera phone	2.7~5.5	32-MLF	ISP/IAP EJTAG LVD, POR RING OSC Auto focusing camera phone	Now

■ **Security Core Family (Application-Specific MCU for Security system )**

Product	Feature	Volt (V)	Package	Others	Available time
Security Core 1.0	Optimized AS-MCU (Application-Specific MCU) for Security system	2.4~5.5	16-DIP 16-FLP	LVD, POR RING OSC	Plan

► Product Numbering System



Microcontrollers