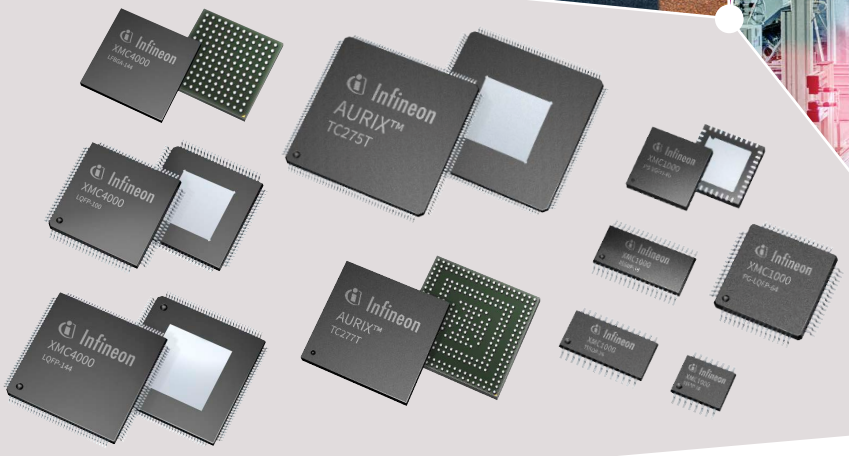

Microcontroller Pocket Guide

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32-bit microcontroller

Product type/partnumber	Markets			Budgetary web price [€/1 kpcs]	Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory		
	Automotive	Industrial	Consumer				Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM
XMC1100 series																										
XMC1100-T016F0008	–	●	●	0.56	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	8	–	16
XMC1100-T016F0016	–	●	●	0.61	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1100-T016X0016	–	●	●	0.65	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	16	–	16
XMC1100-T016X0032	–	●	●	0.76	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1100-T016F0032	–	●	●	0.72	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	32	–	16
XMC1100-T016F0064	–	●	●	0.94	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	64	–	16
XMC1100-T016X0064	–	●	●	0.99	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1100-T038F0016	–	●	●	0.70	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1100-T038F0032	–	●	●	0.81	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	32	–	16
XMC1100-T038F0064	–	●	●	1.03	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	64	–	16
XMC1100-T038X0064	–	●	●	1.08	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1100-Q024F0008	–	●	●	0.61	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	64	–	16
XMC1100-Q024F0016	–	●	●	0.65	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1100-Q024F0032	–	●	●	0.76	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	32	–	16
XMC1100-Q024F0064	–	●	●	0.99	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	64	–	16
XMC1100-Q040F0016	–	●	●	0.72	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1100-Q040F0032	–	●	●	0.83	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	32	–	16
XMC1100-Q040F0064	–	●	●	1.06	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	64	–	16
XMC1200 series																										
XMC1200-T038F0200	–	●	●	1.91	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	200	–	16
XMC1201-T038F0016	–	●	●	0.79	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1201-T038F0032	–	●	●	0.89	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	32	–	16
XMC1201-T038F0064	–	●	●	1.12	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	64	–	16
XMC1201-T038F0128	–	●	●	1.46	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	128	–	16
XMC1201-T038F0200	–	●	●	1.91	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	200	–	16
XMC1201-Q040F0016	–	●	●	0.81	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16

y					Analog			Timer/PWM						Communication																
																			USIC (Universal Serial Interface Controller)										
Cache	EEPROM emulationin flash	Data/IP protection	Secure bootloader*	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)	LED display	Capacitive touch
–	•	–	•	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/9	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/9	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/9	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/9	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch

32-bit microcontroller

Product type/partnumber	Markets			Budgetary web price [€/1 kpcs]	Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory		
	Automotive	Industrial	Consumer				Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM
XMC1200 series																										
XMC1201-Q040F0032	–	●	●	0.92	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	32	–	16
XMC1201-Q040F0064	–	●	●	1.15	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	64	–	16
XMC1201-Q040F0128	–	●	●	1.48	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	128	–	16
XMC1201-Q040F0200	–	●	●	1.93	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	200	–	16
XMC1201-T028F0016	–	●	●	0.74	TSSOP-28	26	Cortex®-M1	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.6	-40 to 85	16	–	16
XMC1202-T016X0016	–	●	●	0.74	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	16	–	16
XMC1202-T016X0032	–	●	●	0.85	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1202-T028X0016	–	●	●	0.79	TSSOP-28	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	16	–	16
XMC1202-T028X0032	–	●	●	0.90	TSSOP-28	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1202-T028X0064	–	●	●	1.13	TSSOP-28	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1202-Q024X0016	–	●	●	0.79	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	16	–	16
XMC1202-Q024X0032	–	●	●	0.90	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1202-Q040X0016	–	●	●	0.85	VQFN-40	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	16	–	16
XMC1202-Q040X0032	–	●	●	0.97	VQFN-40	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1202-T016X0064	–	●	●	1.09	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.6	-40 to 106	64	–	16
XMC1300 series																										
XMC1301-T016F0008	–	●	●	0.61	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	8	–	16
XMC1301-T016X0008	–	●	●	0.65	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	8	–	16
XMC1301-T016F0016	–	●	●	0.65	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1301-T016X0016	–	●	●	0.70	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1301-T038F0008	–	●	●	0.70	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	8	–	16
XMC1301-T038F0016	–	●	●	0.74	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1301-T038F0032	–	●	●	0.85	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	32	–	16
XMC1301-Q024F0008	–	●	●	0.65	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	8	–	16
XMC1301-Q024F0016	–	●	●	0.70	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1301-Q040F0008	–	●	●	0.72	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	8	–	16

y					Analog			Timer/PWM						Communication															
																			USIC (Universal Serial Interface Controller)										
Cache	EEPROM emulationin flash	Data/IP protection	Secure bootloader*	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)	LED display	Capacitive touch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/10	–	2x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	2x 64 segment	16 ch
–	•	–	•	64	1/2/7	–	2x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/7	–	2x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/10	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/10	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/10	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/9	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/9	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/12	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/7	–	2x	4 ch	–	–	–	–	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–
–	•	–	•	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	•	•	•	•	•	•	•	–	–	–

32-bit microcontroller

Product type/partnumber	Markets			Budgetary web price [€/1 kpcs]	Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory		
	Automotive	Industrial	Consumer				Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM
XMC1300 series																										
XMC1301-Q040F0016	–	●	●	0.76	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1301-Q040F0032	–	●	●	0.88	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	32	–	16
XMC1301-T016F0032	–	●	●	0.77	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.6	-40 to 85	32	–	16
XMC1301-T038X0064	–	●	●	1.13	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.7	-40 to 105	64	–	16
XMC1301-T038F0064	–	●	●	1.09	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.8	-40 to 85	64	–	16
XMC1302-T016X0008	–	●	●	0.70	TSSOP-16	14	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	8	–	16
XMC1302-T016X0016	–	●	●	0.74	TSSOP-16	14	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	16	–	16
XMC1302-T016X0032	–	●	●	0.85	TSSOP-16	14	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1302-T038X0016	–	●	●	0.83	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	16	–	16
XMC1302-T038X0032	–	●	●	0.94	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1302-T038X0064	–	●	●	1.17	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	8	–	16
XMC1302-T038X0128	–	●	●	1.51	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1302-T038X0200	–	●	●	1.96	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	200	–	16
XMC1302-Q024F0016	–	●	●	0.74	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	16	–	16
XMC1302-Q024F0032	–	●	●	0.85	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	32	–	16
XMC1302-Q024F0064	–	●	●	1.08	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	64	–	16
XMC1302-Q024X0016	–	●	●	0.79	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	16	–	16
XMC1302-Q024X0032	–	●	●	0.90	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1302-Q024X0064	–	●	●	1.12	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1302-Q040X0016	–	●	●	0.85	VQFN-40	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	16	–	16
XMC1302-Q040X0032	–	●	●	0.97	VQFN-40	26	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1302-Q040X0064	–	●	●	1.19	VQFN-40	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1302-Q040X0128	–	●	●	1.53	VQFN-40	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1302-Q040X0200	–	●	●	1.99	VQFN-40	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.6	-40 to 105	200	–	16

y					Analog			Timer/PWM						Communication																
																			USIC (Universal Serial Interface Controller)											
Cache	EEPROM emulationin flash	Data/IP protection	Secure bootloader*	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)	LED display		Capacitive touch
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/7	–	2x	–	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	–	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	–	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–
–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–		–

32-bit microcontroller

Product type/partnumber	Markets			Budgetary web price [€/1 kpcs]	Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory		
	Automotive	Industrial	Consumer				Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM
XMC1400 series																										
XMC1401-Q048F0064	–	●	●	1.27	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	128	–	16
XMC1401-Q048F0128	–	●	●	1.63	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	128	–	16
XMC1401-F064F0064	–	●	●	1.37	LQFP-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	64	–	16
XMC1401-F064F0128	–	●	●	1.72	LQFP-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 85	128	–	16
XMC1402-Q040X0032	–	●	●	1.08	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1402-Q040X0064	–	●	●	1.31	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1402-Q040X0128	–	●	●	1.67	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1402-Q048X0032	–	●	●	1.12	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	32	–	16
XMC1402-Q048X0064	–	●	●	1.36	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1402-Q048X0128	–	●	●	1.72	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1402-Q064X0064	–	●	●	1.46	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1402-Q064X0128	–	●	●	1.82	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1402-Q064X0200	–	●	●	2.29	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	200	–	16
XMC1402-F064X0064	–	●	●	1.46	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1402-F064X0128	–	●	●	1.82	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1402-F064X0200	–	●	●	2.29	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	200	–	16
XMC1403-Q048X0064	–	●	●	1.39	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1403-Q048X0128	–	●	●	1.74	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1403-Q048X0200	–	●	●	2.22	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	200	–	16
XMC1403-Q064X0064	–	●	●	1.48	VQFN-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1403-Q064X0128	–	●	●	1.84	VQFN-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1403-Q064X0200	–	●	●	2.32	VQFN-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	200	–	16
XMC1404-Q048X0064	–	●	●	1.48	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1404-Q048X0128	–	●	●	1.84	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1404-Q048X0200	–	●	●	2.32	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	200	–	16
XMC1404-Q064X0064	–	●	●	1.58	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16

y					Analog			Timer/PWM						Communication															
																			USIC (Universal Serial Interface Controller)										
Cache	EEPROM emulationin flash	Data/IP protection	Secure bootloader*	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)	LED display	Capacitive touch
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	–	–	–	2x	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch

32-bit microcontroller

Product type/partnumber	Markets			Budgetary web price [€/1 kpcs]	Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory		
	Automotive	Industrial	Consumer				Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM
XMC1400 series																										
XMC1404-Q064X0128	–	●	●	1.94	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1404-Q064X0200	–	●	●	2.41	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	200	–	16
XMC1404-F064X0064	–	●	●	1.58	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	64	–	16
XMC1404-F064X0128	–	●	●	1.94	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	128	–	16
XMC1404-F064X0200	–	●	●	2.41	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	2.0 to 5.5	-40 to 105	200	–	16
XMC4100 series																										
XMC4108-Q48K64	–	●	●	2.17	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	64	●	20
XMC4108-F64K64	–	●	●	2.52	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	64	●	20
XMC4104-Q48F64	–	●	●	2.70	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	64	●	20
XMC4104-Q48F128	–	●	●	2.80	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	128	●	20
XMC4104-Q48K64	–	●	●	2.97	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	64	●	20
XMC4104-Q48K128	–	●	●	3.09	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	128	●	20
XMC4104-F64F64	–	●	●	2.82	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	64	●	20
XMC4104-F64F128	–	●	●	2.92	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	128	●	20
XMC4104-F64K64	–	●	●	3.20	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	64	●	20
XMC4104-F64K128	–	●	●	3.31	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	128	●	20
XMC4100-Q48F128	–	●	●	3.01	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	128	●	20
XMC4100-Q48K128	–	●	●	3.21	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	128	●	20
XMC4100-F64F128	–	●	●	3.12	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	128	●	20
XMC4100-F64K128	–	●	●	3.54	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	128	●	20
XMC4200 series																										
XMC4200-Q48F256	–	●	●	3.12	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	40
XMC4200-Q48K256	–	●	●	3.33	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	40
XMC4200-F64F256	–	●	●	3.22	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	40
XMC4200-F64K256	–	●	●	3.66	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	40

y					Analog			Timer/PWM						Communication															
																			USIC (Universal Serial Interface Controller)										
Cache	EEPROM emulationin flash	Data/IP protection	Secure bootloader*	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)	LED display	Capacitive touch
–	•	–	•	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	•	•	•	•	•	•	•	–	3x 64 segment	24 ch
–	•	–	•	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	•	•	•	•	•	•	•	–	3x 64 segment	24 ch
–	•	–	•	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	•	•	•	•	•	•	•	–	3x 64 segment	24 ch
–	•	–	•	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	•	•	•	•	•	•	•	–	3x 64 segment	24 ch
–	•	–	•	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	•	•	•	•	•	•	•	–	3x 64 segment	24 ch
1	•	•	–	80	2/2/8	2 ch	–	8 ch	4 ch	–	–	1x	–	–	–	1	–	–	4 ch	•	•	•	•	•	•	•	–	–	–
1	•	•	–	80	2/2/9	2 ch	–	8 ch	4 ch	–	–	1x	–	–	–	1	–	–	4 ch	•	•	•	•	•	•	•	–	–	–
1	•	•	–	80	2/2/8	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	–	–	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/8	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	–	–	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/8	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	–	–	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/8	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	–	–	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/9	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	–	–	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/9	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	–	–	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/9	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	–	–	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/9	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	–	–	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/8	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/8	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/9	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/9	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/8	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/8	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/9	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
1	•	•	–	80	2/2/9	2 ch	–	8 ch	4 ch	•	–	1x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch

32-bit microcontroller

Product type/partnumber	Markets			Budgetary web price [€/1 kpcs]	Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory		
	Automotive	Industrial	Consumer				Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM
XMC4300 series																										
XMC4300-F100F256	–	●	–	7.97	LQFP-100	75	Cortex®-M4	144	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	128
XMC4300-F100K256	–	●	–	8.77	LQFP-100	75	Cortex®-M4	144	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	128
XMC4400 series																										
XMC4402-F64F256	–	●	●	4.23	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	80
XMC4402-F64K256	–	●	●	4.80	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	80
XMC4402-F100F256	–	●	●	4.53	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	80
XMC4402-F100K256	–	●	●	5.14	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	80
XMC4400-F64F256	–	●	●	4.43	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	80
XMC4400-F64F512	–	●	●	4.64	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	512	●	80
XMC4400-F64K256	–	●	●	5.03	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	80
XMC4400-F64K512	–	●	●	5.26	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	512	●	80
XMC4400-F100F256	–	●	●	4.88	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	80
XMC4400-F100F512	–	●	●	4.94	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	512	●	80
XMC4400-F100K256	–	●	●	5.37	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	80
XMC4400-F100K512	–	●	●	5.43	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	512	●	80
XMC4500 series																										
XMC4504-F100F512	–	●	●	4.79	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	512	●	128
XMC4504-F100K512	–	●	●	5.27	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	512	●	128
XMC4504-F144F512	–	●	●	5.18	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	512	●	128
XMC4504-F144K512	–	●	●	5.70	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	512	●	128
XMC4502-F100F768	–	●	●	5.18	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	768	●	160
XMC4502-F100K768	–	●	●	5.70	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	768	●	160
XMC4500-F100F768	–	●	●	5.57	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	768	●	160
XMC4500-F100F1024	–	●	●	5.77	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1024	●	160
XMC4500-F100K768	–	●	●	6.13	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	768	●	160

…y					Analog			Timer/PWM						Communication															
																			USIC (Universal Serial Interface Controller)										
Cache	EEPROM emulationin flash	Data/IP protection	Secure bootloader*	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)	LED display	Capacitive touch
8	•	•	–	144	2/2/14	2 ch	–	8 ch	4 ch	–	–	–	–	•	•	2	•	•	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
8	•	•	–	144	2/2/14	2 ch	–	8 ch	4 ch	–	–	–	–	•	•	2	•	•	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/9	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/9	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	–	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/9	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	•	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/9	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	•	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/9	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	•	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/9	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	•	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	•	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	•	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	•	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	•	4 ch	2x	–	–	•	2	•	–	4 ch	•	•	•	•	•	•	•	–	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
4	•	•	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
4	•	•	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	3	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	3	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	•	3	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	•	3	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
4	•	•	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	•	3	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch

32-bit microcontroller

Product type/partnumber	Markets			Budgetary web price [€/1 kpcs]	Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory		
	Automotive	Industrial	Consumer				Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM
XMC4500 series																										
XMC4500-F100K1024	–	●	●	6.54	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1024	●	160
XMC4500-F144F768	–	●	●	5.96	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	768	●	160
XMC4500-F144F1024	–	●	●	6.16	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1024	●	160
XMC4500-F144K768	–	●	●	6.13	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	768	●	160
XMC4500-F144K1024	–	●	●	6.77	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1024	●	160
XMC4500-E144F1024	–	●	●	6.67	LFBGA-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1024	●	160
XMC4500-E144X1024	–	●	●	7.08	LFBGA-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 105	1024	●	160
XMC4700 series																										
XMC4700-F100F1536	–	●	●	7.16	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1536	●	276
XMC4700-F100F2048	–	●	●	7.97	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	2048	●	352
XMC4700-F100K1536	–	●	●	7.88	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1536	●	276
XMC4700-F100K2048	–	●	●	8.77	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	2048	●	352
XMC4700-F144F1536	–	●	●	7.58	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1536	●	276
XMC4700-F144F2048	–	●	●	8.38	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	2048	●	352
XMC4700-F144K1536	–	●	●	8.34	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	40 to 125	1536	●	276
XMC4700-F144K2048	–	●	●	9.22	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	2048	●	352
XMC4700-E196F1536	–	●	●	7.99	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1536	●	276
XMC4700-E196F2048	–	●	●	8.80	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	2048	●	352
XMC4700-E196K1536	–	●	●	8.79	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1536	●	276
XMC4700-E196K2048	–	●	●	9.68	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	2048	●	352

y					Analog			Timer/PWM						Communication															
																			USIC (Universal Serial Interface Controller)										
Cache	EEPROM emulationin flash	Data/IP protection	Secure bootloader*	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)	LED display	Capacitive touch
4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch

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Product type/partnumber	Markets			Budgetary web price [€/1 kpcs]	Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory		
	Automotive	Industrial	Consumer				Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM
XMC4800 series																										
XMC4800-F100F1024	–	●	–	11.84	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1024	●	200
XMC4800-F100F1536	–	●	–	12.71	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1536	●	276
XMC4800-F100F2048	–	●	–	13.58	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	2048	●	352
XMC4800-F100K1024	–	●	–	13.02	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1024	●	200
XMC4800-F100K1536	–	●	–	13.98	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1536	●	276
XMC4800-F100K2048	–	●	–	14.94	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to125	2048	●	352
XMC4800-F144F1024	–	●	–	12.29	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1024	●	200
XMC4800-F144F1536	–	●	–	13.16	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1536	●	276
XMC4800-F144F2048	–	●	–	14.03	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	2048	●	352
XMC4800-F144K1024	–	●	–	13.51	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1024	●	200
XMC4800-F144K1536	–	●	–	14.47	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1536	●	276
XMC4800-F144K2048	–	●	–	15.43	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to125	2048	●	352
XMC4800-E196F1024	–	●	–	12.73	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1024	●	200
XMC4800-E196F1536	–	●	–	13.60	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1536	●	276
XMC4800-E196F2048	–	●	–	14.47	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	2048	●	352
XMC4800-E196K1024	–	●	–	14.01	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1024	●	200
XMC4800-E196K1536	–	●	–	14.96	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1536	●	276
XMC4800-E196K2048	–	●	–	15.92	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to125	2048	●	352

BCCU = Brightness and Color Control Unit for LED lighting
CCU = Capture Compare Unit
FPU = Floating Point Unit
MMC = Multi Media Card
POSIF = Motor Position Interface
SDIO = SD Card Interface with Input/Output
USIC = UART/SCI, SPI, Dual-SPI, Quad-SPI, IIC/I^2C, IIS/I^2S, LIN

y					Analog			Timer/PWM						Communication															
																			USIC (Universal Serial Interface Controller)										
Cache	EEPROM emulationin flash	Data/IP protection	Secure bootloader*	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)	LED display	Capacitive touch
8	•	•	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch
8	•	•	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	•	•	6	•	•	6 ch	•	•	•	•	•	•	•	•	1x 64 segment	8 ch

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Product type	Markets			Package		TriCore™		Program flash		Data flash			SRAM	DMA	ADC		Timer - GTM		
	Automotive	Industrial	Consumer	Temperature T_A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	Modules 12-bit (SAR) / 16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch.
AURIX™ – family																			
SAK-TC299TX-128F300	●	●	–	125	LFBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72
SAK-TC299TY-128F300	●	●	–	125	LFBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72
SAK-TC299TP-128F300	●	●	–	125, 150	LFBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	84/10 diff	48/152	80	72
SAK-TC298TP-128F300	●	●	–	125, 150	LFBGA-416 (1.0 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	84/10 diff	48/152	80	72
SAK-TC297TA-128F300	●	●	–	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72
SAK-TC297TB-128F300	●	●	–	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72
SAK-TC297TX-128F300	●	●	–	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72
SAK-TC297TY-128F300	●	●	–	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72
SAK-TC297TP-128F300	●	●	–	125, 150	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	84/10 diff	48/152	80	72
SAK-TC297T-128F300	●	●	–	125, 150	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	84/10 diff	48/152	80	72
SAK-TC277TP-64F200	●	●	–	125, 150	LFBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	64/6 diff	32/88	48	40
SAK-TC277T-64F200	●	●	–	125, 150	LFBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	64/6 diff	32/88	48	40
SAK-TC275TP-64F200	●	●	–	125, 150	LFBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	48/6 diff	32/88	48	40
SAK-TC275T-64F200	●	●	–	125, 150	LFBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	4	8/6	48/6 diff	32/88	48	40
SAK-TC267D-40F200	●	●	–	125, 150	LFBGA-292 (0.8 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	56/3 diff	24/ 64	32	32
SAK-TC265D-40F200	●	●	–	125, 150	LQFP-176 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	50/3 diff	24/ 64	32	32
SAK-TC264DA-40F200	●	●	–	125	LQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	752	48	4/3	40/3 diff	24/ 64	32	32
SAK-TC264D-40F200	●	●	–	125, 150	LQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	40/3 diff	24/ 64	32	32
SAK-TC234LA-32F200	●	●	–	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	704	16	2/–	24/–	8/32	32	–
SAK-TC234LX-32F200	●	●	–	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	704	16	2/–	24/–	8/32	32	–
SAK-TC234LP-32F200	●	●	–	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–
SAK-TC234L-32F200	●	●	–	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–
SAK-TC233L-32F200	●	●	–	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–
SAK-TC233LP-32F200	●	●	–	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–

	Timer	Interfaces															Safety	Security	Power	
DTM – 2x 4 ch	CCU/GPT modules	FlexRay (#/ch.)	CAN-FD (nodes/obj)(DIS 2014)	CAN-FD (nodes/obj)(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I²C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	FFT accelerator engine	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit
–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	Yes	Yes	WUT + SRAM
–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	No	Yes	WUT + SRAM
–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	Yes	Yes	WUT + SRAM
–	2/1	2/4	6/384	4	4	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	Yes	Yes	WUT + SRAM
–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	–	1	1	1	ASIL-D	Yes	Yes	WUT + SRAM
–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	–	1	1	1	ASIL-D	No	Yes	WUT + SRAM
–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	Yes	Yes	WUT + SRAM
-	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	No	Yes	WUT + SRAM
–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	Yes	Yes	WUT + SRAM
–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	No	Yes	WUT + SRAM
–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	Yes	Yes	WUT + SRAM
–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	No	Yes	WUT + SRAM
–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	Yes	Yes	WUT + SRAM
–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	No	Yes	WUT + SRAM
–	2/1	1/2	5/256	No	4	4	1	6	2	1	1	2 diff LVDS	–	–	–	1	ASIL-D	No	Yes	Yes
–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff LVDS	–	–	–	1	ASIL-D	No	Yes	Yes
–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff LVDS	–	1	1	1	ASIL-D	No	Yes	Yes
–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff LVDS	–	–	–	1	ASIL-D	No	Yes	Yes
2	2/1	1/2	6/128	No	4	2	–	4	–	–	–	–	–	1	–	1	ASIL-D	Yes	Yes	WUT + SRAM
2	2/1	1/2	6/128	No	4	2	–	4	–	–	–	–	–	–	–	1	ASIL-D	Yes	Yes	WUT + SRAM
2	2/1	1/2	6/128	4	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	Yes	Yes	WUT + SRAM
2	2/1	1/2	6/128	4	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	No	Yes	WUT + SRAM
2	2/1	1/2	6/128	4	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	No	Yes	WUT + SRAM
2	2/1	1/2	6/128	4	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	Yes	Yes	WUT + SRAM

32-bit microcontroller

Product type	Markets			Package		TriCore™		Program flash		Data flash			SRAM	DMA	ADC		Timer - GTM		
	Automotive	Industrial	Consumer	Temperature T_A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	Modules 12-bit (SAR) / 16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch.
AURIX™ – family																			
SAK-TC224L-16F133	●	●	–	125, 150	TQFP-144 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–
SAK-TC224S-16F133	●	●	–	125, 150	TQFP-144 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–
SAK-TC223L-16F133	●	●	–	125, 150	TQFP-100 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–
SAK-TC223S-16F133	●	●	–	125, 150	TQFP-100 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–
SAK-TC222L-16F133	●	●	–	125, 150	TQFP-80 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–
SAK-TC222S-16F133	●	●	–	125, 150	TQFP-80 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–
SAK-TC214L-8F133	●	●	–	125, 150	TQFP-144 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–
SAK-TC214S-8F133	●	●	–	125, 150	TQFP-144 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–
SAK-TC213L-8F133	●	●	–	125, 150	TQFP-100 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–
SAK-TC213S-8F133	●	●	–	125, 150	TQFP-100 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–
SAK-TC212L-8F133	●	●	–	125, 150	TQFP-80 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–
SAK-TC212S-8F133	●	●	–	125, 150	TQFP-80 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–

ASC = Asynchronous Serial Channel
CCU = Capture Compare Unit
EVR = Embedded Voltage Regulator
MSC = Micro Second Channel
PSI5 = Peripheral Sensor Interface
SENT = Single Edge Nibble Transmission

	Timer	Interfaces															Safety	Security	Power	
DTM – 2x 4 ch	CCU/GPT modules	FlexRay (#/ch.)	CAN-FD (nodes/obj)(DIS 2014)	CAN-FD (nodes/obj)(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I^2C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	FFT accelerator engine	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	No	Yes	WUT + SRAM
2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	No	Yes	WUT + SRAM

32-bit microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges[3]	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [KByte]	Co-processor[1]	Digital I/O lines	Number of ADC channels
TriCore™ microcontroller											
AUDO – next generation family											
TC1762-1128F	●	●	–	K	LQFP-176	66–80	1000	52	FPU	81	32
TC1766-192F80HL	●	●	–	K	LQFP-176	80	1500	108	FPU, PCP	81	32
TC1796-256F150E	●	●	–	K	BGA-416	150	2000	256	FPU, PCP	123	44
AUDO – future family											
TC1736-128F80HL	●	●	–	K	LQFP-144	80	1000	48	FPU	70	24
TC1767-256F	●	●	–	K	LQFP-176	80–133	2000	128	FPU, PCP	88	36
TC1797-512F180E	●	●	–	K	BGA-416	180	4000	224	FPU, PCP	221	48
AUDO MAX – family											
TC1724N-192F80HR	●	●	–	K	LQFP-144	80	1500	152	FPU, PCP	95	28
TC1728N-192F133HR	●	●	–	K	LQFP-176	133	1500	152	FPU, PCP	127	36
TC1782F-320F180HR	●	●	–	K	LQFP-176	180	2500	176	FPU/PCP	86	36
TC1784F-320F180EL	●	●	–	K	LFBGA-292	180	2500	176	FPU/PCP	126	36
TC1791F-512F240EP	●	●	–	K	LFBGA-292	240	4000	288	FPU/PCP	144	48
TC1793F-512F270EF	●	●	–	K	LBGA-416	270	4000	288	FPU/PCP	221	44
TC1798F-512F300EP	●	●	–	K	BGA-516	300	4000	288	FPU/PCP	252	72

ASC = Asynchronous Serial Channel
EVR = Embedded Voltage Regulator
FPU = Floating Point Unit
MSC = Micro Second Channel
MLI = Micro Link Interface

PCP = Peripheral Control Processor
SDIO = SD Card Interface with Input/Output
SENT = Single Edge Nibble Transmission
SSC = Synchronous Serial Channel
USIC = ASC, SPI, I^2C, I^2S

K = -40/+125 °C

Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces [2]	USIC	USB	SDIO	ASC	SSC	I^2C	Additional features / remarks
48	–	2	–	2x ASC, 1x SSC, 1x MSC, 1x MLI	–	–	–	2x	1x	–	–
48	–	2	–	2x ASC, 2x SSC, 1x MSC, 2x MLI	–	–	–	2x	2x	–	–
126	✓	4	–	2x ASC, 2x SSC, 2x MSC, 2x MLI	–	–	–	2x	2x	–	–
53	–	2	–	2x ASC, 2x SSC, 1x MSC, 1x MLI	–	–	–	2x	2x	–	–
80	–	2	–	2x ASC, 2x SSC, 1x MSC, 1x MLI	–	–	–	2x	2x	–	–
118	✓	4	–	2x ASC, 2x SSC, 2x MSC, 2x MLI	–	–	–	2x	2x	–	–
77	–	3	–	2x ASC, 4x SSC, 1x MSC, 1x MLI	–	–	–	2x	4x	–	EVR
94	–	3	–	2x ASC, 4x SSC, 1x MSC, 1x MLI	–	–	–	2x	4x	–	EVR
80	–	3	–	2x ASC, 3x SSC, 1x MSC, 1x MLI, 2x FlexRay	–	–	–	2x	3x	–	–
122	✓	3	–	2x ASC, 3x SSC, 1x MSC, 1x MLI, 2x FlexRay	–	–	–	2x	3x	–	–
100	–	4	–	2x ASC, 4x SSC, 2x MSC, 2x MLI, 8x SENT, 2x FlexRay	–	–	–	2x	4x	–	–
112	✓	4	–	2x ASC, 4x SSC, 2x MSC, 2x MLI, 8x SENT, 2x FlexRay	–	–	–	2x	4x	–	–
138	✓	4	–	2x ASC, 4x SSC, 2x MSC, 2x MLI, 8x SENT, 2x FlexRay	–	–	–	2x	4x	–	–

16/32-bit microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [KByte]	Co-processor
XC2000 family – for automotive applications									
XC2200 for body applications									
U-series									
XC2220U	●	–	–	F, K	VQFN-48	40	32–64	8	MAC
L-series									
XC2224L	●	–	–	F, K	VQFN-48	66	96–160	12	MAC
XC2234L	●	–	–	F, K	LQFP-64	66	96–160	12	MAC
N-series									
XC2238N	●	–	–	F, K	LQFP-64	80	192–320	34	MAC
XC2268N	●	–	–	F, K	LQFP-100	80	192–320	34	MAC
M-series									
XC2237M	●	–	–	F, K	LQFP-64	80	448–832	50	MAC
XC2267M	●	–	–	F, K	LQFP-100	80	448–832	50	MAC
XC2287M	●	–	–	F, K	LQFP-144	80	448–832	50	MAC
I-series									
XC2269I	●	–	–	F, K	LQFP-100	128	1088	90	MAC
XC2289I	●	–	–	F, K	LQFP-144	128	1088	90	MAC
H-series									
XC2289H	●	–	–	F, K	LQFP-144	100	1600	138	MAC
XC2299H	●	–	–	F, K	LQFP-176	100	1600	138	MAC
XC2300 for safety applications									
A-series									
XC2336A	●	–	–	F, K	LQFP-64	40	448–832	50	MAC
XC2365A	●	–	–	F, K	LQFP-100	80	448–832	50	MAC
XC2387A	●	–	–	F, K	LQFP-144	80	448–832	50	MAC
B-series									
XC2336B	●	–	–	F, K	LQFP-64	80	320	34	MAC
XC2365B	●	–	–	F, K	LQFP-100	80	192–320	18–34	MAC
C-series									
XC2388C	●	–	–	F, K	LQFP-144	100	1088–1600	138	MAC

Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
33	10	17	✓	–	–	1x USIC	–
33	10	23	✓	2	–	2x USIC	–
49	19	24	✓	2	–	2x USIC	CuWb
38	9	22	✓	6	–	4x USIC	CuWb
76	16	32	✓	6	–	6x USIC	CuWb
38	9	22	✓	6	–	6x USIC	–
76	16	32	✓	6	–	8x USIC	CuWb
119	24	44	✓	6	–	8x USIC	CuWb
76	19	32	✓	6	–	10x USIC, 2xFlexRay	CuWb
118	28	44	✓	6	–	10x USIC, 2x FlexRay	CuWb
119	24	44	✓	4	–	10x USIC, 2x FlexRay	–
150	30	66	✓	6	–	10x USIC, 2x FlexRay	–
38	9	24	✓	2	–	4x USIC	–
76	16	24	✓	3	–	6x USIC	CuWb
119	24	32	✓	3	–	6x USIC	CuWb
38	9	20	✓	2	–	4x USIC	CuWb
76	16	24	✓	3	–	6x USIC	CuWb
119	24	32	✓	4	–	10x USIC, 2x FlexRay	–

16/32-bit microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [KByte]	Co-processor
XC2300 for safety applications									
D-series									
XC2321D	●	–	–	F, K	VQFN-48	80	96–160	12	MAC
XC2331D	●	–	–	F, K	LQFP-64	80	96–160	12	MAC
E-series									
XC2368E	●	–	–	F, K	LQFP-100	128	576–1088	90	MAC
XC2388E	●	–	–	F, K	LQFP-144	128	576–1088	90	MAC
S-series									
XC2320S	●	–	–	F, K	VQFN-48	66	32–64	8	MAC
XC2700 for powertrain applications									
2-series									
XC2722X	●	–	–	K	VQFN-48	40	64	8	MAC
3-Series									
XC2723X	●	–	–	K	VQFN-48	66	160	12	MAC
XC2733X	●	–	–	K	LQFP-64	66	160	12	MAC
4-series									
XC2734X	●	–	–	K	LQFP-64	80	320	34	MAC
XC2764X	●	–	–	K	LQFP-100	80	320	34	MAC
5-series									
XC2765X	●	–	–	K	LQFP-100	80	576–832	50	MAC
XC2785X	●	–	–	K	LQFP-144	80	576–832	50	MAC
7-series									
XC2787X	●	–	–	K	LQFP-144	100	1600	138	MAC
8-series									
XC2768X	●	–	–	K	LQFP-100	128	1088	90	MAC
XC2788X	●	–	–	K	LQFP-144	128	1088	90	MAC

MAC = Multiply-Accumulate-Unit (DSP)
USIC = ASC, SPI, I^2C, I^2S

F = -40/+85 °C
K = -40/+125 °C

Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
33	10	23	✓	2	–	2x USIC	–
49	19	24	✓	2	–	2x USIC	CuWb
75	16	32	✓	3	–	6x USIC, 2x FlexRay	CuWb
118	24	32	✓	3	–	8x USIC, 2x FlexRay	CuWb
33	10	17	✓	–	–	1x USIC	–
33	10	17	✓	–	–	2x USIC	–
33	10	23	✓	2	–	2x USIC	–
49	19	24	✓	2	–	2x USIC	CuWb
38	9	20	✓	2	–	4x USIC	CuWb
76	16	24	✓	2	–	4x USIC	CuWb
76	16	37	✓	2	–	4x USIC	CuWb
119	24	44	✓	2	–	4x USIC	CuWb
119	24	60	✓	2	–	6x USIC	–
76	19	32	✓	2	–	10x USIC, 2x FlexRay	CuWb
118	28	44	✓	2	–	10x USIC, 2x FlexRay	CuWb

16-bit microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [KByte]	Co-processor
C166 family									
C161									
C161CS-LF	●	●	–	B, F, K	TQFP-128	25	256/–	10	–
C161O/K/S-LM/-L25M/3V	●	●	–	B, F	MQFP-80	20/25	–	2/1/2	–
C161PI-LM/-L25M/3V	●	●	–	B, F	MQFP-100	20/25	–	3	–
C161PI-LF/-L25F/3V	●	●	–	B, F	TQFP-100	20/25	–	3	–
C164									
C164CI/CL-8EM/-8E25M	●	●	–	F, K	MQFP-80	20/25	64	4	–
C164CI-LM/-L25M/3V	●	●	–	F, K	MQFP-80	20	–	4	–
C164CM-4EF	●	●	–	F, K	TQFP-64	20	32	2	–
C165									
C165-LF/-L25F/3V	●	●	–	B, F	TQFP-100	20/25	–	2	–
C165-LM/-L25M/3V	●	●	–	B, F	MQFP-100	20/25	–	2	–
C167									
C167SR-LM	●	●	–	F, B, K	MQFP-144	25	–	4	–
C167CS-L16M/-LM/-L33M/-L40M 3V	●	●	–	F, B, K	MQFP-144	16/25/33/40	–	11	–
XC166 family									
XC164CM									
XC164CM	●	●	–	F, K	TQFP-64	40	64–128	6–8	MAC
XC164CI									
XC161CI	●	●	–	F, K	TQFP-144	40	128	8	MAC
XC164CS									
XC164CS	●	●	–	F, K	TQFP-100	40	128–256	8–12	MAC
XC167CI									
XC167CI	●	●	–	F, K	TQFP-144	40	128–256	8–12	MAC

Digital I/O lines	Number of ADC channels	Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
93	12	32	✓	2	–	2x ASC, 1x SSC, 1x I^2C, J1850	ROM less
63	–	–	✓	–	–	1x ASC, 1x SSC	ROM less
76	4	–	✓	–	–	1x ASC, 1x SSC, 1x I^2C	ROM less
76	4	–	✓	–	–	1x ASC, 1x SSC, 1x I^2C	ROM less
59	8	12	✓	1	–	1x ASC, 1x SSC	OTP
59	8	12	✓	1	–	1x ASC, 1xSSC	ROM less
50	8	16	✓	1	–	1x ASC, 1xS SC	OTP
77	–	–	✓	–	–	1x ASC, 1x SSC	ROM less
77	–	–	✓	–	–	1x ASC, 1x SSC	ROM less
111	16	36	✓	–	–	1x UART, 1x SSC	ROM less
111	24	36	✓	2	–	1x UART, 1x SSC	ROM less
47	14	20	✓	2	–	2x ASC, 2x SSC	–
99	12	32	✓	2	–	2x ASC, 2x SSC, 1x SDLM, 1x I^2C, J1850	–
79	14	36	✓	2	–	2x ASC, 2x SSC	–
103	16	36	✓	2	–	2x ASC, 2x SSC, 1x I^2C	–

16-bit microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [KByte]	Co-processor
XE166 real time signal controller for industrial and multi market									
Classic series - alpha line									
XE164x	–	●	●	F, K	LQFP-100	66/80	768	24–82	MAC
XE167x	–	●	●	F, K	LQFP-144	66/80	768	28–82	MAC
U series - compact line									
XE161x	–	●	●	F, K	VQFN-48	40/66	64	8	MAC
L series - econo line									
XE161x	–	●	●	F, K	VQFN-48	66/80	128–160	12	MAC
XE162x	–	●	●	F, K	LQFP-64	66/80	96–160	12	MAC
N series - value line									
XE162xN	–	●	●	F, K	LQFP-64	80	128–320	18–34	MAC
XE164xN	–	●	●	F, K	LQFP-100	–	128–320	18–34	MAC
M series - base line									
XE162xM	–	●	●	F, K	LQFP-64	80	384–576	24–50	MAC
XE164xM	–	●	●	F, K	LQFP-100	80	384–576	26–50	MAC
XE167xM	–	●	●	F, K	LQFP-144	80	384–576	34–50	MAC
H series - high line									
XE167xH	–	●	●	F, K	LQFP-144	100	1.024–1.600	138	MAC
XE169xH	–	●	●	F, K	LQFP-176	100	1.024–1.600	138	MAC

ASC = Asynchronous Serial Channel
MAC = Multiply-Accumulate-Unit (DSP)
SDLM = Serial Data Link Module
SSC = Synchronous Serial Channel
USIC = ASC, SPI, I^2C, I^2S

B = 0/+70 °C
F = -40/+85 °C
K = -40/+125 °C

Digital I/O lines	Number of ADC channels	Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
75	11–16	30–37	✓	0–4	–	4–6x USIC	–
118	16–24	30–44	✓	0–5	–	4–6x USIC	–
33	10	15	–	–	–	2x USIC	–
33	10	21	–	1	–	4x USIC	–
48	19	21	–	2	–	4x USIC	CuWb
40	9	23	✓	0–2	–	6x USIC	CuWb
75	11–16	30	✓	0–2	–	4–6x USIC	CuWb
40	9	23	–	0–2	–	6x USIC	–
76	11–16	30–37	✓	0–4	–	4–6x USIC	CuWb
119	16–24	30–44	✓	0–6	–	4–8x USIC	CuWb
98–118	24	60	✓	6	–	10x USIC	–
98–118	30	60	✓	6	–	10x USIC	–

8-bit microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [KByte]	Co-processor
C500 family									
C505CA-4EM /-LM	●	●	●	F, B, K	MQFP-44	20	0	1.25	–
C515C-8EM	●	●	●	F, B, K	MQFP-80	10	64	2.25	–
XC800 family									
XC82x-series									
XC822MT	●	●	●	F, K	TSSOP-16	24	2–4	0.5	–
XC83x-series									
XC836MT	●	●	●	F, K, L	TSSOP-28	24	4–8	0.5	VC
XC86x-series									
XC866	●	●	●	F, K, A, L	TSSOP-38	26.67	4–16	0.75	–
XC866L	●	●	●	F, K, A, L	TSSOP-38	26.67	4–16	0.75	–
XC87x-series									
XC878	●	●	●	F, K, X	LQFP-64	27	52–64	3	[VC]
XC88x-series									
XC886	●	●	●	F, K, A, L	TQFP-48	24	24–32	1.75	[VC]
XC888	●	●	●	F, K, [A], [L]	TQFP-64	24	24–32	1.74	[VC]
CIC family (companion IC)									
CIC61508	●	●	–	K	TSSOP-38	26.67	–	0.25	–

[ ] = Optional features
HCP = High Current Pads
MAC = Multiply-Accumulate-Unit (DSP)
MDU = Multiply Divide Unit

LIN BSL = LIN Bootstrap Loader
SSC = Synchronous Serial Channel
TP = Touchpad Library in ROM
VC = Vector Computer (MDU + CORDIC)

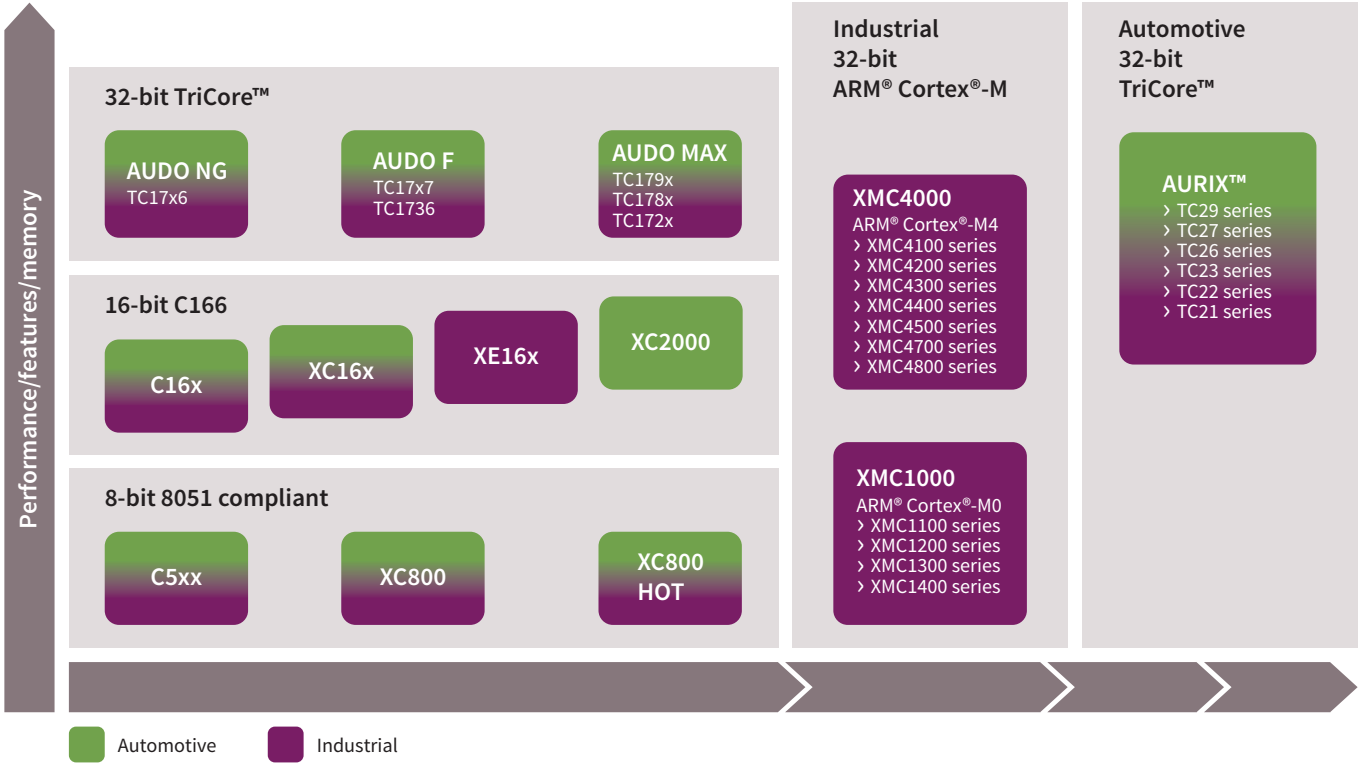
A = -40/+140 °C
F = -40/+85 °C
K = -40/+125 °C
L = -40/+150 °C
X = -40/+105 °C

Digital I/O lines	Number of ADC channels	Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
34	8	4	–	1	–	1x USART	OTP, ROM less
49	8	4	–	1	–	1x USART, 1x SSC	OTP
17	4	4	–	–	–	1x UART, 1x SSC, LIN	–
25	8	4	–	–	–	1x UART, 1x SSC, LIN	–
27	8	4	–	–	–	1x UART, 1x SSC	–
27	8	4	–	–	–	1x UART, LIN BSL, 1x SSC	–
48	8	10	✓	[2]	–	2x UART, 1x SSC, [LIN]	–
34	8	4	–	[2]	–	2x UART, [LIN BSL], [1x SSC]	–
48	8	4	–	[2]	–	2x UART, [LIN BSL], [1x SSC]	–
–	–	–	–	–	–	Safety signature watchdog	Flash

Voltage regulators

Microcontroller family	Input voltage [V]	Input current (max) [mA]	Voltage regulator
XC8xx	5.0 … 3.3	20	IFX20001/IFX24401/IFX2931/IFX25001/FX21401/IFX4949
XE166/XC2000	1.5 and 3.3 or 5.0	100	IFX25401/IFX24401/IFX2931/IFX4949
TriCore™	1.5 … 3.3	> 400	IFX27001/IFX8117/IFX91041/IFX80471/IFX25001/IFX1117
XMC4000 series	3.3	300	IFX1763/IFX544xx
XMC1000 series	1.8 … 5.5	< 100	IFX544xx/IFX542xx/IFX4949/IFX2931/IFX25001

Infineon microcontrollers roadmap



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