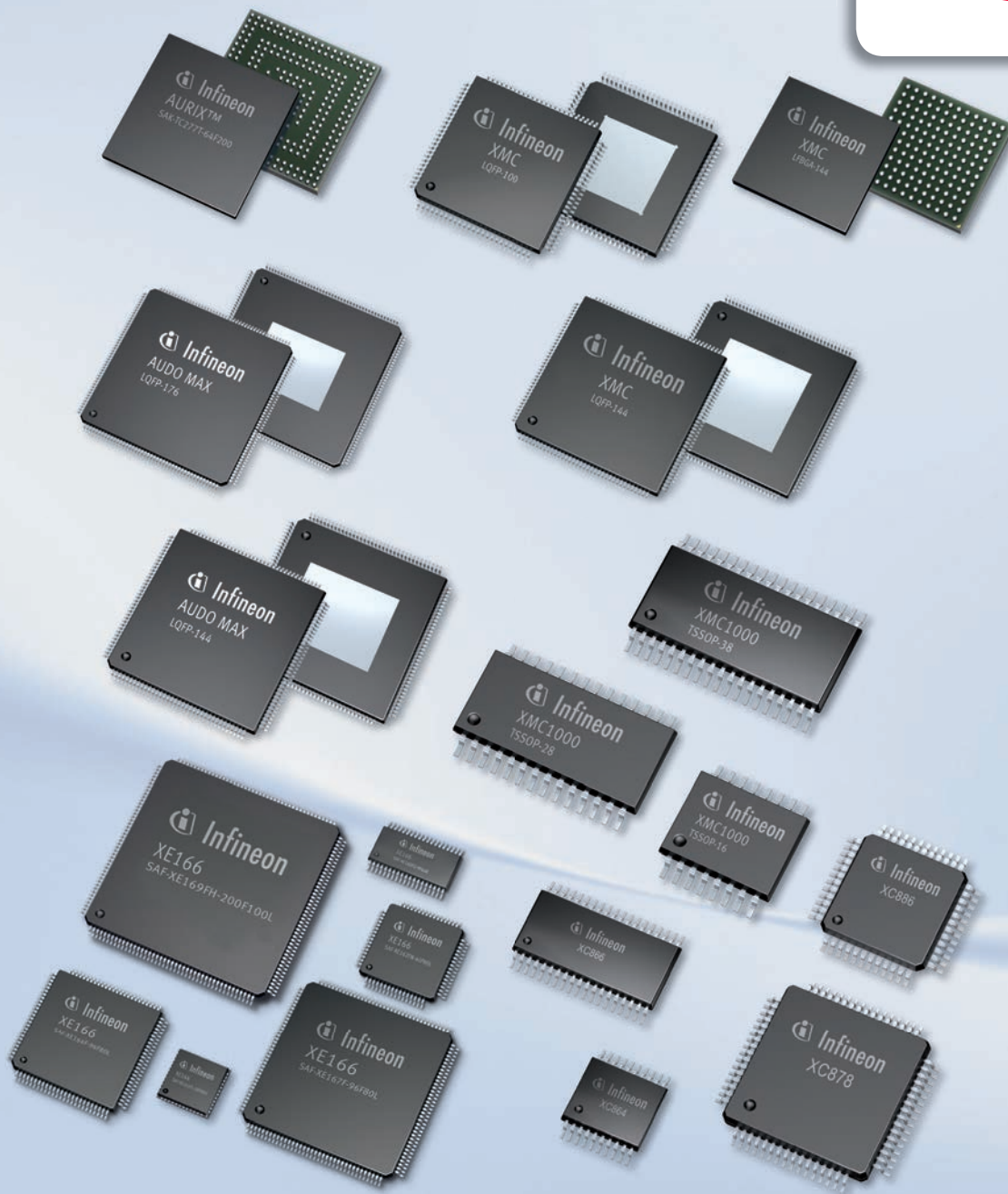




Microcontroller Pocket Guide

	Product Type	Max Clock Frequency (MHz)	Program Memory (KByte)	SRAM (incl. Cache) (KByte)	Co-Processor ¹⁾	Digital I/O Lines	Number of ADC Channels	Timed I/O Channels (PWM, CAPCOM, GP1A)	External Bus Interface	CAN Nodes	Communication Interfaces ²⁾	Temperature Ranges ³⁾	Packages	Additional Features/Remarks ⁴⁾
32-bit Microcontroller	XMC4000 for Industrial and Multi Market													
	XMC4100 Series													
	XMC4100-F64	80	128	20	FPU	35	9	31	no	2	4x USIC, USB	F,K	PG-LQFP-64	EVR
	XMC4100-Q48	80	128	20	FPU	21	8	21	no	2	4x USIC, USB	F,K	PG-VQFN-48	EVR
	XMC4104-F64	80	64-128	20	FPU	35	9	31	no	0	4x USIC	F,K	PG-LQFP-64	EVR
	XMC4104-Q48	80	64-128	20	FPU	21	8	21	no	0	4x USIC	F,K	PG-VQFN-48	EVR
	XMC4200 Series													
	XMC4200-F64	80	256	40	FPU	35	9	31	no	2	4x USIC, USB	F,K	PG-LQFP-64	EVR
	XMC4200-Q48	80	256	40	FPU	21	8	21	no	2	4x USIC, USB	F,K	PG-VQFN-48	EVR
	XMC4400 Series													
	XMC4400-F100	120	256-512	80	FPU	55	18	46	no	2	4x USIC, Ethernet 10/100 Mbit/s, USB	F,K	PG-LQFP-100	EVR
	XMC4400-F64	120	256-512	80	FPU	31	9	29	no	2	4x USIC, Ethernet 10/100 Mbit/s, USB	F,K	PG-LQFP-64	EVR
	XMC4402-F100	120	256	80	FPU	55	18	46	no	2	4x USIC, USB	F,K	PG-LQFP-100	EVR
	XMC4402-F64	120	256	80	FPU	31	9	29	no	2	4x USIC, USB	F,K	PG-LQFP-64	EVR
	XMC4500 Series													
	XMC4500 E144	120	1024	160	FPU	91	26	74	yes	3	6x USIC, Ethernet 10/100 Mbit/s, USB	F	PG-LFBGA-144	EVR
	XMC4500 F100	120	768-1024	160	FPU	55	18	44	no	3	6x USIC, Ethernet 10/100 Mbit/s, USB	F,K	PG-LQFP-100	EVR
	XMC4500-F144	120	1024	160	FPU	91	26	74	yes	3	6x USIC, Ethernet 10/100 Mbit/s, USB	F,K	PG-LQFP-144	EVR
	XMC4500-F144	120	768	160	FPU	91	26	74	no	3	6x USIC, Ethernet 10/100 Mbit/s, USB	F,K	PG-LQFP-144	EVR
	XMC4502-F100	120	768	160	FPU	55	18	44	no	3	6x USIC, USB	F,K	PG-LQFP-100	EVR
	XMC4504-F100	120	512	128	FPU	55	18	44	no	0	6x USIC	F,K	PG-LQFP-100	EVR
	XMC4504-F144	120	512	128	FPU	91	26	74	yes	0	6x USIC	F,K	PG-LQFP-144	EVR
32-bit Microcontroller	XMC1000 for Industrial and Multi Market													
	XMC1100 Series													
	XMC1100-T016	32	8-64	16	no	14	6	4	no		2xUSIC	F	PG-TSSOP-16	
	XMC1100-T038	32	16-64	16	no	33	12	4	no		2xUSIC	F	PG-TSSOP-38	
	XMC1200 Series													
	XMC1201-T038	32	16-200	16	no	33	12	6	no		2xUSIC	F	PG-TSSOP-38	LEDTS
	XMC1202-T016	32	16-32	16	no	14	6	11	no		2xUSIC	X	PG-TSSOP-16	2x Comp- arator, BCCU, Temp. Sensor
	XMC1202-T028	32	16-32	16	no	26	10	13	no		2xUSIC	X	PG-TSSOP-28	3x Comp- arator, BCCU, Temp. Sensor
	XMC1300 Series													
	XMC1301-T016	32	8-16	16	no	14	6	12	no		2xUSIC	F	PG-TSSOP-16	2x Compar- ator, CCU8 spe- cial purpose timer, POSIF
	XMC1301-T038	32	8-32	16	no	33	12	20	no		2xUSIC	F	PG-TSSOP-38	3x Compar- ator, CCU8 spe- cial purpose timer, POSIF
	XMC1302-T038	32	16-200	16	MATH	33	12	29	no		2xUSIC	X	PG-TSSOP-38	3x Comp- arator, CCU8 special pur- pose timer, POSIF, BCCU

Product Type	Max Clock Frequency (MHz)	Program Memory (KByte)	SRAM (incl. cache) (KByte)	Co-Processor ¹⁾	Digital I/O Lines	Number of ADC Channels	Timed I/O Channels (PWM, CAPCOM, GPTA)	External Bus Interface	CAN Nodes	Communication Interfaces ²⁾	Temperature Ranges ³⁾	Packages	Additional Features/Remarks ⁴⁾
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TriCore™ for Industrial and Multi Market

TC11xx Family													
TC1167-126F133HL	133	1000	128	FPU, PCP	88	36	80	no	2	2xASC, 2xSSC, 1xMSC, 1xMLI	F	PG-LQFP-176	
TC1197	180	2000-4000	224	FPU, PCP	221	48	118	yes	4	2xASC, 2xSSC, 2xMSC, 2xMLI	K	PG-BGA-416	
AUDO-MAX – Family													
TC1724N-192F80HR	80	1500	152	FPU, PCP	95	28	77	no	3	2xASC, 4xSSC, 1xMSC, 1xMLI	K	PG-LQFP-144	EVR
TC1728N-192F133HR	133	1500	152	FPU, PCP	127	36	94	no	3	2xASC, 4xSSC, 1xMSC, 1xMLI	K	PG-LQFP-176	EVR
TC1782N-320F180HR	180	2500	152	FPU, PCP	86	36	80	no	3	2xASC, 4xSSC, 1xMSC, 1xMLI	K	PG-LQFP-176	
TC1784N-320F180EL	180	2500	152	FPU, PCP	139	36	122	yes	3	2xASC, 4xSSC, 1xMSC, 1xMLI	K	PG-LFBGA-292	
TC1791N-384F200EP	200	3000	320	FPU, PCP	144	48	100	no	4	2xASC, 4xSSC, 2xMSC, 2xMLI, 8xSENT	K	PG-LFBGA-292	
TC1793N-512F270EF	270	4000	320	FPU, PCP	235	44	140	yes	4	2xASC, 4xSSC, 2xMSC, 2xMLI, 8xSENT	K	PG-BGA-416	
TC1798N-512F300EP	300	4000	320	FPU, PCP	252	72	138	yes	4	2xASC, 4xSSC, 2xMSC, 2xMLI, 8xSENT	K	PG-BGA-516	

TriCore™ for Automotive Applications

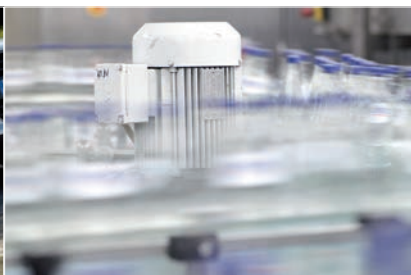
AUDO – Next Generation Family													
TC1762-128F	66-80	1000	52	FPU	81	32	48	no	2	2xASC, 1xSSC, 1xMSC, 1xMLI	K	PG-LQFP-176	
TC1766-192F80HL	80	1500	108	FPU, PCP	81	32	48	no	2	2xASC, 2xSSC, 1xMSC, 2xMLI	K	PG-LQFP-176	
TC1796-256F150E	150	2000	256	FPU, PCP	123	44	126	yes	4	2xASC, 2xSSC, 2xMSC, 2xMLI	K	PG-BGA-416	
AUDO – Future Family													
TC1736-128F80HL	80	1000	48	FPU	70	24	53	no	2	2xASC, 2xSSC, 1xMSC, 1xMLI	K	PG-LQFP-144	
TC1767-256F	80-133	2000	128	FPU, PCP	88	36	80	no	2	2xASC, 2xSSC, 1xMSC, 1xMLI	K	PG-LQFP-176	
TC1797-512F180E	180	4000	224	FPU, PCP	221	48	118	yes	4	2xASC, 2xSSC, 2xMSC, 2xMLI	K	PG-BGA-416	
AUDO-MAX – Family													
TC1724N-192F80HR	80	1500	152	FPU, PCP	95	28	77	no	3	2xASC, 4xSSC, 1xMSC, 1xMLI	K	PG-LQFP-144	EVR
TC1728N-192F133HR	133	1500	152	FPU, PCP	127	36	94	no	3	2xASC, 4xSSC, 1xMSC, 1xMLI	K	PG-LQFP-176	EVR
TC1782N-256F133HR	133	2000	176	FPU/PCP	86	36	80	no	3	2xASC, 3xSSC, 1xMSC, 1xMLI, 2xFlexRay	K	PG-LQFP-176	
TC1782F-320F180HR	180	2500	176	FPU/PCP	86	36	80	no	3	2xASC, 3xSSC, 1xMSC, 1xMLI, 2xFlexRay	K	PG-LQFP-176	
TC1784F-320F180EL	180	2500	176	FPU/PCP	126	36	122	yes	3	2xASC, 3xSSC, 1xMSC, 1xMLI, 2xFlexRay	K	PG-LFBGA-292-2	
TC1791F	240	4000	288	FPU/PCP	144	48	100	no	4	2xASC, 4xSSC, 2xMSC, 2xMLI, 8xSENT, 2xFlexRay	K	PG-LFBGA-292	
TC1793F-512F270EF	270	4000	288	FPU/PCP	221	44	112	yes	4	2xASC, 4xSSC, 2xMSC, 2xMLI, 8xSENT, 2xFlexRay	K	PG-LBGA-416	
TC1798F-512F300EP	300	4000	288	FPU/PCP	252	72	138	yes	4	2xASC, 4xSSC, 2xMSC, 2xMLI, 8xSENT, 2xFlexRay	K	PG-BGA-516	

Product Type	Max Clock Frequency (MHz)	Program Memory (KByte)	SRAM (incl. cache) (KByte)	Co-Processor ¹⁾	Digital I/O Lines	Number of ADC Channels	Timed I/O Channels (PWM, CAPCOM, GP1A)	External Bus Interface	CAN Nodes	Communication Interfaces ²⁾	Temperature Ranges ³⁾	Packages	Additional Features/Remarks ⁴⁾
AURIX™ – Family													
TC275T-64F200W	200	4000	472	FPU	112	60 / 6 DS	110	no	4	2xFlexRay, 4xQSPI, 4xASC, 1xI2C, 10xSent, 3xPSI5, 1xHSSL, 2xMSC	K	PG-LQFP-176	EVR
TC277T-64F200S	200	4000	472	FPU	151	60 / 6 DS	134	no	4	2xFlexRay, 4xQSPI, 4xASC, 1xI2C, 10xSent, 3xPSI5, 1xHSSL, 2xMSC	K	PG-LFBGA-292	EVR

C500 Family													
C505CA-4EM	20	0	1.25	-	34	8	4	no	1	1xUSART	F,B,K	PG-MQFP-44	OTP
C505CA-2/-4RM	20	16/32	1.25	-	34	8	4	no	1	1xUSART	F,B,K	PG-MQFP-44	ROM
C505CA-LM	20	0	1.25	-	34	8	4	no	1	1xUSART	F,B,K	PG-MQFP-44	ROM less
C515C-8EM	10	64	2.25	-	49	8	4	no	1	1xUSART, 1xSSC	F,B,K	PG-MQFP-80	OTP

XC800 A-Family (Automotive)													
XC82x-Series													
XC822MT-1FRA	24	2-4	0.5	-	17	4	4	no	-	1xUART, 1xSCC, LIN	F,K	PG-TSSOP-16	
XC83x-Series													
XC836MT	24	4-8	0.5	VC	25	8	4	no	-	1xUART, 1xSCC, LIN	F,K	PG-TSSOP-28	
XC86x-Series													
XC866-1FRA	26.67	4-16	0.75	-	27	8	4	no	-	1xUART, 1xSCC	F,K,A,L	PG-TSSOP-38	
XC866L-1FRA	26.67	4-16	0.75	-	27	8	4	no	-	1xUART, LIN BSL, 1xSCC	F,K,A,L	PG-TSSOP-38	
XC87x-Series													
XC874[CM][LM][CLM]	27	52-64	3	[VC]	48	8	10	yes	[2]	2xUART, 1xSCC, LIN	F,K	PG-VQFN-48	
XC878[CM][LM][CLM]	27	52-64	3	[VC]	48	8	10	yes	[2]	2xUART, 1xSCC, [LIN]	F,K,X	PG-LQFP-64	
XC88x-Series													
XC886[LM][CM][CLM]	24	24-32	1.75	[VC]	34	8	4	no	[2]	2xUART, [LIN BSL], [1xSCC]	F,K,A,L	PG-TQFP-48	
XC888[LM][CM][CLM]	24	24-32	1.74	[VC]	48	8	4	no	[2]	2xUART, [LIN BSL], [1xSCC]	F,K[A][L]	PG-TQFP-64	

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 5V	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	1.8V ... 5.5V	<100	IFX544xx/IFX542xx/IFX4949/IFX2931/IFX25001



Product Type	Max Clock Frequency (MHz)	Program Memory (KByte)	SRAM (incl. cache) (KByte)	Co-Processor ¹⁾	Digital I/O Lines	Number of ADC Channels	Timed I/O Channels (PWM, CAPCOM, GP1A)	External Bus Interface	CAN Nodes	Communication Interfaces ²⁾	Temperature Ranges ³⁾	Packages	Additional Features/Remarks ⁴⁾
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XC800 I-Family (Industrial and Multi Market)

XC82x-Series													
XC822[T]	24	2-4	0.5	-	13	4	4	no	-	1xUART, 1SSC, I2C	X,F	PG-TSSOP-16	[TP]
XC822M[T]-1FRI	24	4	0.5	MDU	13	4	4	no	-	1xUART, 1SSC, I2C	F,K,X	PG-TSSOP-16	[TP]
XC824M[T]-1FGI	24	4	0.5	MDU	17	4	4	no	-	1xUART, 1SSC, I2C	F,K,X	PG-DSO-20	[TP]
XC83x-series													
XC835MT-2FGI	24	8	0.5	VC	21	4	4	no	-	1xUART, 1SSC, I2C	F	PG-DSO-24	HCP, TP
XC836[M][T]	24	4-8	0.5	[VC]	25	8	4	no	-	1xUART, 1SSC, I2C	F	PG-TSSOP-28	HCP, [TP]
XC85x-Series													
XC858CA-9FFI	27	36-64	3	-	48	8	10	yes	2	2xUART, 1SSC	F	PG-TQFP-64	
XC86x-Series													
XC866	26.67	4-16	0.75	-	27	8	4	no	-	1xUART, 1xSSC	F,K	PG-TSSOP-38	
XC87x-Series													
XC878[C][M]	27	52-64	3	[VC]	48	8	10	yes	[2]	2xUART, 1SSC	F,K	PG-TQFP-64	
XC88x-Series													
XC886[C][M]	24	24-32	1.75	[VC]	34	8	4	no	[2]	2xUART, 1SSC	F,K	PG-TSSOP-48	
XC888[C][M]	24	24-32	1.75	[VC]	48	8	4	no	[2]	2xUART, 1SSC	F,K	PG-TSSOP-64	

CIC-Family (Companion IC)

CIC61508	26.67		0,25							Safety signature watchdog	K	PG-TSSOP-38	ROM
CIC61508	26.67		0,25							Safety signature watchdog	K	PG-TSSOP-38	Flash

C166 Family

C161													
C161CS-32RF	25	256	10	-	93	12	32	yes	2	2xASC, 1xSSC, 1xI2C, J1850	B,F,K	PG-TQFP-128	ROM
C1610-LM/-L25M/3V	20/25	-	2	-	63	-	-	yes	-	1xASC, 1xSSC	B,F	PG-MQFP-80	ROM less
C161K-LM/3V	20	-	1	-	63	-	-	yes	-	1xASC, 1xSSC	B,F	PG-MQFP-80	ROM less
C161PI-LM/-L25M/3V	20/25	-	3	-	76	4	-	yes	-	1xASC, 1xSSC, 1xI2C	B,F	PG-MQFP-100	ROM less
C161PI-LF/-L25F/3V	20/25	-	3	-	76	4	-	yes	-	1xASC, 1xSSC, 1xI2C	B,F	PG-TQFP-100	ROM less
C161S-L25M/3V	25	-	2	-	63	-	-	yes	-	1xASC, 1xSSC	B,F	PG-MQFP-80	ROM less
C161CS-LF	25	-	10	-	93	12	32	yes	2	2xASC, 1xSSC, 1xI2C, J1850	K,F,B	PG-TQFP-128	ROM less
C164													
C164CI-8EM/-8E25M	20/25	64	4	-	59	8	12	yes	1	1xASC, 1xSSC	F,K	PG-MQFP-80	OTP
C164CI-LM/-L25M/3V	20	-	4	-	59	8	12	yes	1	1xASC, 1xSSC	F,K	PG-MQFP-80	ROM less
C164CI-8RM	20	64	4	-	59	8	12	yes	1	1xASC, 1xSSC	F,K	P/PG-MQFP-80	ROM
C164CL-8RM/-8R25M	20/25	64	4	-	59	8	12	yes	1	1xASC, 1xSSC	F,K	PG-MQFP-80	ROM
C164SI-8RM/-8R25M	20/25	64	4	-	59	8	12	yes	-	1xASC, 1xSSC	F,K	P/PG-MQFP-80	ROM
C164CM-4RF	20	32	2	-	50	8	16	yes	1	1xASC, 1xSSC	F,K	PG-TQFP-64	ROM
C164CM-4EF	20	32	2	-	50	8	16	yes	1	1xASC, 1xSSC	F,K	PG-TQFP-64	OTP
C164SM-4RF	20	32	2	-	50	8	16	yes	-	1xASC, 1xSSC	K	PG-TQFP-64	ROM
C164SV-2RF	20	16	1	-	50	8	16	yes	-	1xASC, 1xSSC	K,F	PG-TQFP-64	ROM
C165													
C165-LF/-L25F/3V	20/25	-	2	-	77	-	-	yes	-	1xASC, 1xSSC	B,F	PG-TQFP-100	ROM less
C165-LM/-L25M/3V	20/25	-	2	-	77	-	-	yes	-	1xASC, 1xSSC	B,F	PG-MQFP-100	ROM less
C167													
C167SR-LM	25	-	4	-	111	16	36	yes	-	1xUART, 1xSSC	F,B,K	PG-MQFP-144	ROM less
C167CR-LM/-L33M	25/33	-	4	-	111	16	36	yes	1	1xUART, 1xSSC	F,B,K	PG-MQFP-144	ROM less
C167CR-4RM/-16RM	25	32/128	4	-	111	16	36	yes	1	1xUART, 1xSSC	F,B,K	PG-MQFP-144	ROM
C167CS-LM/-L33M/-L40M	25/33/40	-	11	-	111	24	36	yes	2	1xUART, 1xSSC	F,B,K	PG-MQFP-144	ROM less
C167CS-L16M 3V	16	-	11	-	111	24	36	yes	2	1xUART, 1xSSC	F,B,K	PG-MQFP-144	ROM less
C167CS-4RM/-4R40M	25/40	32	11	-	111	24	36	yes	2	1xUSART, 1xSSC	F,B,K	PG-MQFP-144	ROM

Product Type	Max Clock Frequency (MHz)	Program Memory (KByte)	SRAM (incl. cache) (KByte)	Co-Processor ¹⁾	Digital I/O Lines	Number of ADC Channels	Timed I/O Channels (PWM, CAPCOM, GPTA)	External Bus Interface	CAN Nodes	Communication Interfaces ²⁾	Temperature Ranges ³⁾	Packages	Additional Features/Remarks ⁴⁾
XC166 Family													
XC164CM													
XC164CM	40	64-128	6-8	MAC	47	14	20	yes	2	2xASC, 2xSSC	F,K	PG-TQFP-64	
XC164CI													
XC161CJ	40	128	8	MAC	99	12	32	yes	2	2xASC, 2xSSC, 1xSDLM, 1xI2C, J1850	F,K	PG-TQFP-144	
XC164CS													
XC164CS	40	128-256	8-12	MAC	79	14	36	yes	2	2xASC, 2xSSC	F,K	PG-TQFP-100	
XC167CI													
XC167CI	40	128-256	8-12	MAC	103	16	36	yes	2	2xASC, 2xSSC, 1xI2C	F,K	PG-TQFP-144	

XE166 Real Time Signal Controller for Industrial and Multi Market

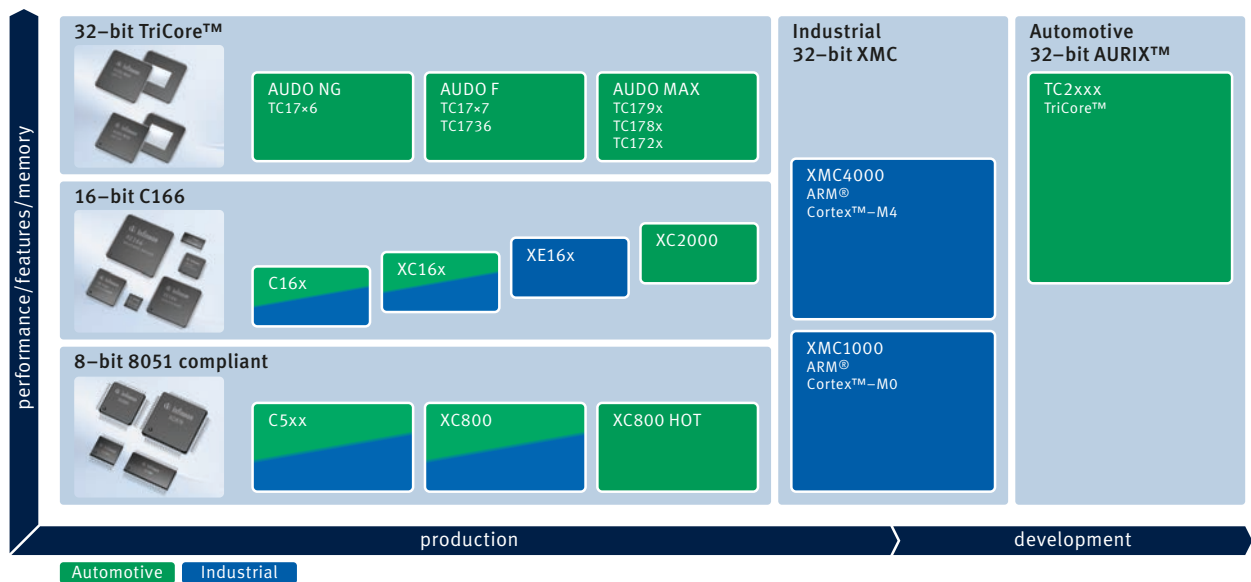
Classic Series - Alpha Line													
XE164x	66/80	768	24-82	MAC	75	11-16	30-37	yes	0-4	4-6xUSIC	F,K	PG-LQFP-100	
XE167x	66/80	768	28-82	MAC	118	16-24	30-44	yes	0-5	4-6xUSIC	F,K	PG-LQFP-144	
U Series - Compact Line													
XE160x	40/66	32-64	8	MAC	28	8	15	no	-	2xUSIC	F,K	PG-TSSOP-38	
XE161x	40/66	64	8	MAC	33	10	15	no	-	2xUSIC	F,K	PG-VQFN-48	
L Series - Econo Line													
XE161x	66/80	128-160	12	MAC	33	10	21	no	1	4xUSIC	F,K	PG-VQFN-48	
XE162x	66/80	96-160	12	MAC	48	19	21	no	2	4xUSIC	F,K	PG-LQFP-64	
N Series - Value Line													
XE162xN	80	128-320	18-34	MAC	40	9	23	yes	0-2	6xUSIC	F,K	PG-LQFP-64	
XE164xN		128-320	18-34	MAC	75	11-16	30	yes	0-2	4-6xUSIC	F,K	PG-LQFP-100	
M Series - Base Line													
XE162xM	80	384-576	24-50	MAC	40	9	23	no	0-2	6xUSIC	F,K	PG-LQFP-64	
XE164xM	80	384-576	26-50	MAC	76	11-16	30-37	yes	0-4	4-6xUSIC	F,K	PG-LQFP-100	
XE167xM	80	384-576	34-50	MAC	119	16-24	30-44	yes	0-6	4-8xUSIC	F,K	PG-LQFP-144	
H Series - High Line													
XE167xH	100	1.024-1.600	138	MAC	98-118	24	60	yes	6	10xUSIC	F,K	PG-LQFP-144	
XE169xH	100	1.024-1.600	138	MAC	98-118	30	60	yes	6	10xUSIC	F,K	PG-LQFP-176	

XC2000 Family for Automotive Applications

XC2200 for Body Applications													
XC2264	66	448	34	MAC	75	8	32	yes	2	2xSPI, 2xLIN	F,K	PG-LQFP-100	
XC2267	66	448-768	34-82	MAC	75	16	32	yes	5	6xUSIC	F,K	PG-LQFP-100	
XC2287	66	448-768	34-82	MAC	118	24	44	yes	5	6xUSIC	F,K	PG-LQFP-144	
U-Series													
XC2210U	66	32-64	8	MAC	28	7	17	yes	-	1xUSIC	F,K	PG-TSSOP-38	
XC2220U	66	32-64	8	MAC	33	10	17	yes	-	1xUSIC	F,K	PG-VQFN-48	
L-Series													
XC2220L	80	96-160	12	MAC	33	10	23	yes	-	2xUSIC	F,K	PG-VQFN-48	
XC2224L	80	96-160	12	MAC	33	10	23	yes	2	2xUSIC	F,K	PG-VQFN-48	
XC2230L	80	96-160	12	MAC	49	19	24	yes	-	2xUSIC	F,K	PG-LQFP-64	
XC2234L	80	96-160	12	MAC	49	19	24	yes	2	2xUSIC	F,K	PG-LQFP-64	
N-Series													
XC2236N	40	192-320	34	MAC	38	9	22	yes	1	4xUSIC	F,K	PG-LQFP-64	
XC2238N	40	192-320	34	MAC	38	9	22	yes	6	4xUSIC	F,K	PG-LQFP-64	
XC2263N	80	192-320	34	MAC	76	16	32	yes	1	4xUSIC	F,K	PG-LQFP-100	
XC2265N	80	192-320	34	MAC	76	16	32	yes	3	6xUSIC	F,K	PG-LQFP-100	
XC2268N	80	192-320	34	MAC	76	16	32	yes	6	6xUSIC	F,K	PG-LQFP-100	

Product Type	Max Clock Frequency (MHz)	Program Memory (KByte)	SRAM (incl. cache) (KByte)	Co-Processor ¹⁾	Digital I/O Lines	Number of ADC Channels	Timed I/O Channels (PWM, CAPCOM, GPTA)	External Bus Interface	CAN Nodes	Communication Interfaces ²⁾	Temperature Ranges ³⁾	Packages	Additional Features/Remarks ⁴⁾
M-Series													
XC2237M	80	448-832	50	MAC	38	9	22	yes	6	6xUSIC	F,K	PG-LQFP-64	
XC2263M	80	448-832	50	MAC	76	16	32	yes	1	4xUSIC	F,K	PG-LQFP-100	
XC2265M	80	448-832	50	MAC	76	16	32	yes	3	6xUSIC	F,K	PG-LQFP-100	
XC2267M	80	448-832	50	MAC	76	16	32	yes	6	8xUSIC	F,K	PG-LQFP-100	
XC2285M	80	448-832	50	MAC	119	24	44	yes	2	4xUSIC	F,K	PG-LQFP-144	
XC2287M	80	448-832	50	MAC	119	24	44	yes	6	8xUSIC	F,K	PG-LQFP-144	
I-Series													
XC2268I	128	1088	90	MAC	76	19	32	yes	6	10xUSIC	F,K	PG-LQFP-100	
XC2269I	128	1088	90	MAC	76	19	32	yes	6	10xUSIC, 2xFlexRay	F,K	PG-LQFP-100	
XC2288I	128	1088	90	MAC	118	28	44	yes	6	10xUSIC	F,K	PG-LQFP-144	
XC2289I	128	1088	90	MAC	118	28	44	yes	6	10xUSIC, 2xFlexRay	F,K	PG-LQFP-144	
H-Series													
XC2288H	100	1600	138	MAC	119	24	44	yes	4	10xUSIC	F,K	PG-LQFP-144	
XC2289H	100	1600	138	MAC	119	24	44	yes	4	10xUSIC, 2xFlexRay	F,K	PG-LQFP-144	
XC2298H	100	1600	138	MAC	150	30	66	yes	6	10xUSIC	F,K	PG-LQFP-176	
XC2299H	100	1600	138	MAC	150	30	66	yes	6	10xUSIC, 2xFlexRay	F,K	PG-LQFP-176	
XC2300 for Safety Applications													
XC2365	66	576	50	MAC	75	16	24	yes	3	6x USIC	F,K	PG-LQFP-100	
XC2387	66	576	50	MAC	118	24	32	yes	3	6x USIC	F,K	PG-LQFP-144	
A-Series													
XC2336A	40	448-832	50	MAC	38	9	24	yes	2	4x USIC	F,K	PG-LQFP-64	
XC2363A	80	448-832	50	MAC	76	16	20	yes	2	2x USIC	F,K	PG-LQFP-100	
XC2364A	80	448-832	50	MAC	76	16	24	yes	2	4xUSIC	F,K	PG-LQFP-100	
XC2365A	80	448-832	50	MAC	76	16	24	yes	3	6xUSIC	F,K	PG-LQFP-100	
XC2387A	80	448-832	50	MAC	119	24	32	yes	3	6xUSIC	F,K	PG-LQFP-144	
B-Series													
XC2336B	80	320	34	MAC	38	9	20	yes	2	4xUSIC	F,K	PG-LQFP-64	
XC2363B	80	192-320	18-34	MAC	76	8	20	yes	2	2xUSIC	F,K	PG-LQFP-100	
XC2364B	80	192-320	18-34	MAC	76	16	24	yes	2	4xUSIC	F,K	PG-LQFP-100	
XC2365B	80	192-320	18-34	MAC	76	16	24	yes	3	6xUSIC	F,K	PG-LQFP-100	
C-Series													
XC2387C	100	1088-1600	137	MAC	119	24	32	yes	4	10xUSIC	F,K	PG-LQFP-144	
XC2388C	100	1088-1600	138	MAC	119	24	32	yes	4	10xUSIC, 2xFlexRay	F,K	PG-LQFP-144	
D-Series													
XC2320D	80	96-160	12	MAC	33	10	23	yes	-	2 x USIC	F,K	PG-VQFN-48	
XC2321D	80	96-160	12	MAC	33	10	23	yes	2	2 x USIC	F,K	PG-VQFN-48	
XC2330D	80	96-160	12	MAC	49	19	24	yes	-	2 x USIC	F,K	PG-LQFP-64	
XC2331D	80	96-160	12	MAC	49	19	24	yes	2	2 x USIC	F,K	PG-LQFP-64	
E-Series													
XC2361E	128	576-1088	90	MAC	75	16	24	yes	2	6 x USIC	F,K	PG-LQFP-100	
XC2367E	128	576-1088	90	MAC	75	16	32	yes	3	6 x USIC	F,K	PG-LQFP-100	
XC2368E	128	576-1088	90	MAC	75	16	32	yes	3	6 x USIC, 2xFlexRay	F,K	PG-LQFP-100	
XC2387E	128	576-1088	90	MAC	118	24	32	yes	3	6 x USIC	F,K	PG-LQFP-144	
XC2388E	128	576-1088	90	MAC	118	24	32	yes	3	8 x USIC, 2xFlexRay	F,K	PG-LQFP-144	
S-Series													
XC2310S	66	32-64	8	MAC	28	7	17	yes	-	1 x USIC	F,K	PG-TSSOP-38	
XC2320S	66	32-64	8	MAC	33	10	17	yes	-	1 x USIC	F,K	PG-VQFN-48	

Product Type	Max Clock Frequency (MHz)	Program Memory (KByte)	SRAM (incl. cache) (KByte)	Co-Processor ¹⁾	Digital I/O Lines	Number of ADC Channels	Timed I/O Channels (PWM, CAPCOM, GPTA)	External Bus Interface	CAN Nodes	Communication Interfaces ²⁾	Temperature Ranges ³⁾	Packages	Additional Features/Remarks ⁴⁾
XC2700 for Powertrain Applications													
2-Series													
XC2712X	40	64	8	MAC	28	7	17	yes	-	2xUSIC	K	PG-TSSOP-38	
XC2722X	40	64	8	MAC	33	10	17	yes	-	2xUSIC	K	PG-VQFN-48	
3-Series													
XC2723X	66	160	12	MAC	33	10	23	yes	2	2xUSIC	K	PG-VQFN-48	
XC2733X	66	160	12	MAC	49	19	24	yes	2	2xUSIC	K	PG-LQFP-64	
4-Series													
XC2734X	80	320	34	MAC	38	9	20	yes	2	4xUSIC	K	PG-LQFP-64	
XC2764X	80	320	34	MAC	76	16	24	yes	2	4xUSIC	K	PG-LQFP-100	
5-Series													
XC2765X	80	576-832	50	MAC	76	16	37	yes	2	4xUSIC	K	PG-LQFP-100	
XC2785X	80	576-832	50	MAC	119	24	44	yes	2	4xUSIC	K	PG-LQFP-144	
6-Series													
XC2766X	66	768	50	MAC	75	16	37	yes	2	6 xUSIC	K	PG-LQFP-100	
XC2786X	66	768	50	MAC	118	24	44	yes	2	6 xUSIC	K	PG-LQFP-144	
7-Series													
XC2787X	100	1600	138	MAC	119	24	60	yes	2	6xUSIC	K	PG-LQFP-144	
XC2797X	100	1600	138	MAC	150	30	60	yes	2	6xUSIC	K	PG-LQFP-176	
8-Series													
XC2768X	128	1088	90	MAC	76	19	32	yes	2	10xUSIC, 2xFlexRay	K	PG-LQFP-100	
XC2788X	128	1088	90	MAC	118	28	44	yes	2	10xUSIC, 2xFlexRay	K	PG-LQFP-144	



¹⁾ VC = Vector Computer (MDU + CORDIC), MDU = Multiply Divide Unit, MAC = Multiply-Accumulate-Unit (DSP), FPU = Floating Point Unit, PCP = Peripheral Control Processor

²⁾ I2C = Inter-Integrated Circuit, USART = Universal Synchronous Asynchronous Receiver Transmitter, UART = Universal Asynchronous Receiver Transmitter, SSC = Synchronous Serial Channel, ASC = Asynchronous Serial Channel, MLI = Micro Link Interface, MSC = Micro Second Channel, LIN = Local Interconnect Network, BSL = Boot Strap Loader, SDLM = Serial Data Link Module, USIC = Universal Serial Interface Channel (ASC, SSC, LIN, I2C, I2S)

³⁾ Ambient Temperature Range: B = 0 ... 70°C, F = -40 ... 85°C, X = -40 ... 105°C, K = -40 ... 125°C, A = -40 ... 140°C, L = -40 ... 150°C, H = -40 ... 110°C

⁴⁾ ROM = Read Only Memory, OTP = One Time Programmable, TP = Touchpad Library in ROM, HCP = High Current Pads, MMU = Memory Management Unit, EVR = Embedded Voltage Regulator