



Feature Overview XC2000 Family

	Core		Flash		SRAM					SB RAM	CAN	ADC	Universal Serial Interface [USIC channels] ¹⁾	Capture Compare Units [CCU] ²⁾			FlexRay	Package	Temperature (T _{ambient})
	Core	Frequency	Program Flash	Data Flash	Σ SRAM	Program [PS RAM]	Data Mem [DS RAM]	Dual Port [DP RAM]	Trace Mem for MCDS	Standby	Channels	Channels		CCU 1	CCU 2	CCU 6			

Feature Overview XC2200 for Body & Convenience

I-Series	C166SV2	128	512-1024	64	90	64	24	2		8	6 max.	24	10 max.	0	1	4	2 max.	LQFP-100/ LQFP-144	-40°C to +125°C
H-Series	C166SV2	100/80	1024-1536	64	106/ 138	112	24	2	4	8	6 max.	24/ 30/40	10 max.	1	1	4	2 max.	LQFP-144/ LQFP-176	-40°C to +125°C
M-Series	C166SV2	80/66	384-768	64	50	32	16	2		8	6 max.	16/24	8 max.	0	1	4	-	LQFP-64/ LQFP-100/ LQFP-144	-40°C to +125°C
(-)-Series	C166SV2	80/66	384-704	64	82	64	16	2		1	5 max.	16/24	6 max.	0	1	4	-	LQFP-100/ LQFP-144	-40°C to +125°C
N-Series	C166SV2	80/66/ 40	128-256	64	34	16	16	2		8	6 max.	9/16	6 max.	0	1	2	-	LQFP-64/ LQFP-100	-40°C to +125°C
L-Series	C166SV2	40/66	32-128	32	12	6	4	2			2 max.	10/19	4	0	1	2	-	VQFN-48/ LQFP-64	-40°C to +125°C
U-Series	C166SV2	40	32/64		8	4	2	2			-	7/10	2	0	1	1	-	TSSOP-38/ VQFN-48	-40°C to +125°C

Feature Overview XC2300 for Safety

E-Series	C166SV2	80-128	512-1024	64	90	64	24	2		8	3 max.	24 max.	6 max.	0	1	4 max.	2 max.	LQFP-100/ LQFP-144	-40°C to +125°C
C-Series	C166SV2	80-100	768-1024	64	138	112	24	2	4	8	3	24	8	0	1	4	2 max.	LQFP-144	-40°C to +125°C
A-Series	C166SV2	66-80	384-768	64	50	32	16	2		8	3 max.	24 max.	6 max.	0	1	4 max.	-	LQFP-64/ LQFP-100/ LQFP-144	-40°C to +125°C
(-)-Series	C166SV2	66-80	384-512	64	66	48	16	2		1	3 max.	24 max.	6 max.	0	1	2 max.	-	LQFP-100/ LQFP-144	-40°C to +125°C
B-Series	C166SV2	20-80	128-256	64	34	16	16	2		8	3 max.	16 max.	6 max.	0	1	2	-	LQFP-64/ LQFP-100	-40°C to +125°C
D-Series	C166SV2	20-66	32-128	32	12	6	4	2			1 max.	9	4	0	1	2	-	VQFN-48/ LQFP-64	-40°C to +125°C
S-Series	C166SV2	20-40	32-64		8	4	2	2			-	9 max.	2	0	1	1	-	TSSOP-38/ VQFN-48	-40°C to +125°C

1) USIC: can be configured as UART, LIN, SPI/QSPI, I²C, I²S

2) CCU: used for PWM, D/A

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	Core		Flash		SRAM					SB RAM	CAN	ADC	Universal Serial Interface [USIC channels] ¹⁾	Capture Compare Units [CCU] ²⁾			FlexRay	Package	Temperature (T _{ambient})
	Core	Frequency	Program Flash	Data Flash	Σ SRAM	Program [PS RAM]	Data Mem [DS RAM]	Dual Port [DP RAM]	Trace Mem for MCDS	Standby	Channels	Channels (10bit, 1-2μs)		CCU 1	CCU 2	CCU 6			
Feature Overview XC2700 for Powertrain																			
8X-Series	C166SV2	128	1024	64	90	64	24	2			3	24	6	0	1	4	2 max.	LQFP-100/ LQFP-144/ LQFP-176	-40°C to +125°C
7X-Series	C166SV2	100	1024- 1536	64	106/ 138	112	24	2	4	8	3	24/30	6	1	1	4	2 max.	LQFP-144/ LQFP-176	-40°C to +125°C
6X-Series	C166SV2	66	704	64	82	64	16	2		1	2	16/24	4	0	1	4	–	LQFP-100/ LQFP-144	-40°C to +125°C
5X-Series	C166SV2	80	512/768	64	50	32	16	2		8	2	9/16/ 24	6	0	1	4	–	LQFP-64/ LQFP-100/ LQFP-144	-40°C to +125°C
4X-Series	C166SV2	80	256	64	34	16	16	2		8	2	9/16	4	0	1	2	–	LQFP-64/ LQFP-100	-40°C to +125°C
3X-Series	C166SV2	66	128	32	12	6	4	2			2	10/19	4	0	1	2	–	VQFN-48/ LQFP-64	-40°C to +125°C
2X-Series	C166SV2	40	64		8	4	2	2			0	7/10	2	0	1	1	–	TSSOP-38/ VQFN-48	-40°C to +125°C

1) USIC: can be configured as UART, LIN, SPI/QSPI, I²C, I²S

2) CCU: used for PWM, D/A

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