



### C166 Family

Members of C166 Family	Type	Max CPU Clock	Oscillator	Instruction Cycle Time	ROM/Flash	RAM (Including XRAM)	Linear Address Space for Code & Data	I/O Lines	ADC Inputs Resolution	Timers/Counters (16-Bit)	Capture Compare Unit (Channels)	PWM (Outputs)	Interrupt Vectors/Levels	Serial I/O	Real Time Clock	CAN Interface 20Baudrate	Hardware Power Down	Watchdog Timer	Osc Watchdog	On-Chip Bootstrap Loader	Packaging													
C161	C161V-L16M	16 MHz	prescaler/ direct input	125 ns	-	1 KB	4 MB	63	-	3	-	-	14/16	USART + SSC	-	-	-	✓	-	-	-	P-MQFP-80												
	C161K-L16M					2 KB							20/16																					
	C161O-L16M					3 KB							8 MB										76	4/8 Bit	5	27/16	USART + SSC + I <sup>2</sup> C	✓	yes + Power saving	✓	✓	✓	✓	P-MQFP-100
	C161RI-L16M					3 KB							8 MB										76	4/8 Bit	5	27/16	USART + SSC + I <sup>2</sup> C	✓	yes + Power saving	✓	✓	✓	✓	P-TQFP-100
C163	C163-LF	20 MHz	PLL/ prescaler direct input	100 ns	-	1 KB	16 MB	77	-	5	-	-	20/16	USART + SSP	-	-	✓	✓	✓	-	P-TQFP-100													
	C163-L25F	25 MHz		80 ns																														
	C163-16F 25F*	25 MHz		80 ns																		128 KB Flash												
C164	C164CI-8EM*	20 MHz	PLL/presc. direct input	100 ns	64 K OTP	2 KB	4 MB	69	8/10 Bit	5	8	6	32/16	USART + SSC	✓	✓	yes + Powers.	✓	✓	✓	P-MQFP-80													
	C164CI-8RM*	25 MHz		80 ns	64 K ROM	3 KB																												
C165	C165-LM	20 MHz	prescaler direct input	100 ns	-	2 KB	16 MB	77	-	5	-	-	28/16	USART + SSC	-	-	✓	✓	-	✓	P-MQFP-100													
	C165-L25M	25 MHz		80 ns																														
	C165-RM	20 MHz		100 ns																		4 KB ROM												
	C165-LF	20 MHz		100 ns																		-												
	C165-L25F	25 MHz		80 ns																		-												
C166	SAB80C166-M	20 MHz	prescaler	100 ns	-	1 KB	256 KB	76	10 <sup>4</sup> / 10 Bit	7	16	-	32/16	2x USART	-	-	✓	✓	-	✓	P-MQFP-100													
	SAB80C166-M25	25 MHz		80 ns																														
	SAB83C166-6M	20 MHz		100 ns																		32 KB ROM												
	SAB83C166-6M25	25 MHz		80 ns																		32 KB Flash												
	SAB88C166-6M	20 MHz	100 ns	32 KB Flash																														
	SAB80C166W-M	20 MHz	direct input	100 ns	-																													
	SAB83C166W-6M			100 ns	32 KB ROM																													
	SAB88C166W-6M			100 ns	32 KB Flash																													
C167	C167-LM	20 MHz	prescaler	100 ns	-	2 KB	16 MB	111	16/ 10Bit	9	32	4	56/16	USART + SSC	-	-	✓	✓	-	✓	P-MQFP-144													
	C167S-4RM				32 KB ROM														✓															
	C167SR-LM				-														-															
	C167CR-LM				-														-															
	C167CR-L25M	25 MHz	80 ns	-	4 KB																													
	C167CR-4RM	100 ns	32 KB ROM	✓																														
	C167CR-16RM	100 ns	128 KB ROM	-																														
	C167CR-16FM*	100 ns	128 KB Flash	-																														

\* in preparation