



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 20Baud	Hardware Power Down	Watchdog Timer	Osc Watchdog	On-Chip Bootstrap Loader	Packaging																						
<b>C 161</b>	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	16 MHz	125 ns	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
	C161O-L16M					3 KB																				8 MB	76	4/8 Bit	5	USART + SSC + I <sup>2</sup> C	✓	Yes Power saving	✓	✓	✓	✓	✓	P-MQFP-100					
	C161RI-L16M					128 KB Flash																				16 MB	77	5	USART + SSP	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	P-MQFP-80
	C161RI-L16F																									2 KB	4 MB	69	8/10 Bit	5	USART + SSC	✓	Yes + Powers.	✓	✓	✓	✓	✓	✓	✓	✓	✓	P-MQFP-100
<b>C 163</b>	C163-LF	20 MHz	PLL/prescaler/ direct input	100 ns	-	1 KB	16 MB	77	-	5	-	-	20/16	USART + SSC	-	-	✓	-	-	-	P-TQFP-100																						
	C163-L25F	25 MHz		80 ns	128 KB Flash	2 KB	4 MB	69	8/10 Bit	5	8	-	6	32/16	USART + SSC	✓	-	✓	✓	✓	✓	P-MQFP-80																					
	C163-L16F*	25 MHz		80 ns		3 KB	4 MB	77	-	5	-	-	-	-	28/16	USART + SSC	-	-	✓	✓	✓	P-MQFP-100																					
	C164CI-8EM*	20 MHz		100 ns		64 K OTP	2 KB	4 MB	69	8/10 Bit	5	8	-	6	32/16	USART + SSC	✓	-	✓	✓	✓	✓	P-MQFP-80																				
	C164CI-8RM*	25 MHz		80 ns		64 K ROM	3 KB	4 MB	77	-	5	-	-	-	-	USART + SSC	-	-	✓	✓	✓	✓	P-MQFP-100																				
<b>C 165</b>	C165-LM	20 MHz	prescaler/ direct input	100 ns	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-100																					
	C165-L25M	25 MHz		80 ns	4 KB ROM	2 KB	16 MB	77	-	5	-	-	-	-	USART + SSC	-	-	✓	✓	✓	✓	P-MQFP-100																					
	C165-RM	20 MHz		100 ns		4 KB ROM	2 KB	16 MB	77	-	5	-	-	-	-	USART + SSC	-	-	✓	✓	✓	P-MQFP-100																					
	C165-LF	20 MHz		100 ns		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-TQFP-100																				
	C165-L25F	25 MHz		80 ns		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-TQFP-100																				
<b>C 166</b>	SAB80C166-M	20 MHz	prescaler	100 ns	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-100																					
	SAB80C166-M25	25 MHz		80 ns	32 KB ROM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-100																				
	SAB83C166-5M	20 MHz		100 ns		32 KB ROM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-100																				
	SAB83C166-5M25	25 MHz		80 ns		32 KB Flash	1 KB	256 KB	76	10 <sup>4</sup> / <sub>10</sub> Bit	7	16	-	-	32/16	2 x USART	-	-	✓	✓	✓	✓	P-MQFP-100																				
	SAB88C166-5M	20 MHz		100 ns		32 KB ROM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-100																				
	SAB80C166W-M	20 MHz		100 ns		32 KB ROM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-100																				
	SAB83C166W-5M	20 MHz		100 ns		32 KB Flash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-100																				
SAB88C166W-5M	20 MHz	100 ns	32 KB Flash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-100																							
<b>C 167</b>	C167-LM	20 MHz	prescaler/ PLL/ direct input	100 ns	-	2 KB	16 MB	111	16/ 10Bit	9	32	4	56/16	USART + SSC	-	-	-	✓	✓	✓	✓	P-MQFP-144																					
	C167S-4RM					32 KB ROM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-144																		
	C167SR-LM					32 KB ROM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-144																		
	C167OR-LM					32 KB ROM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-144																		
	C167OR-L25M					128 KB ROM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-144																		
	C167OR-4RM					128 KB ROM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-144																		
	C167OR-16RM					128 KB Flash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-144																		
C167OR-16F*	128 KB Flash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P-MQFP-144																							

\* in preparation