

C 166 Family

Member of C166 Family	Type	max CPU Clock	Oscillator	Instruction Cycle Time	3V (optional)	ROM/OTP	RAM	Linear Address Space for Code/Data	I/O Lines	ADC Inputs Resolution	Timers/Counters (16-Bit)	Capture Compare Unit (Channels)	PWM (Outputs)	Interrupts Vectors/Levels	Serial I/O	Real Time Clock	HDL/CAN Interface 2.0B active	Hardware Power Down	Watchdog Timer	Osc Watchdog	On-Chip Bootstrap-Loader	Packaging					
C161	C161CS-32RF	20 MHz	Prescaler/ Direct Input	100 ns	-	256 KB ROM	10 KB	16 MB	93	12/10 bit	9	32		59/16	USART + SSC + I ² C	✓	2 CAN Modules	yes + Powers.		✓		P-TQFP-128					
	C161K-LM	25 MHz		80 ns	-	-	1 KB	4 MB	63	-	3	-		20/16	USART + SSC	-		-		✓		-	✓	P-MQFP-80			
	C161O-LM	20 MHz		100 ns	✓		2 KB		5	4/10 bit	27/16			USART + SSC + I ² C	✓	-								yes + Power Saving Modes	✓	-	✓
	C161PI-LM	25 MHz	80 ns	-	3 KB	8 MB	76	4/10 bit				5	27/16				USART + SSC + I ² C	✓	-	yes + Power Saving Modes	✓	-	P-MQFP-100				
	C161PI-LF	20 MHz	100 ns	✓																			P-MQFP-100				
	C161PI-LM 3V	20 MHz	100 ns	✓																			P-MQFP-100				
	C161PI-LF 3V	20 MHz	100 ns	✓	P-MQFP-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	-	-	1 KB	16 MB	77	-	5	-	-	20/16	USART + SSP	-	-	✓	✓	-	-	P-TQFP-100					
C164	C164CI-LM	25 MHz	PLL/ Prescaler/ Direct Input	80 ns	-	-	4 KB	4 MB	59	8/10 bit	5	8	6	32/16	USART + SSC	✓	✓	yes + Power Saving Modes	✓	✓	✓	P-MQFP-80					
	C164CI-8EM	20 MHz		100 ns		64 KB OTP	2 KB																				
	C164CI-4RM	25 MHz		80 ns		32 KB ROM	4 KB																6 (red.)				
	C164CI-8RM					64 KB ROM																					
	C164CL-4RM					32 KB ROM																					
	C164CL-8RM					64 KB ROM																					
	C164SI-8RM	64 KB ROM																									
C165	C165-LM 3V	20 MHz	PLL/ 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-LF 3V	20 MHz		100 ns	✓																						
	C165-L25F	25 MHz		80 ns	-																						
	C165UTAH-LF	36 MHz		55 ns	-		3 K	8 MB	72					56/16	USART + SSC + IOM-z/PCM + USB	✓	4xHDL channels	yes + Powers.	✓	✓	P-TQFP-144						
	C165H-LF	40 MHz		50 ns	-										USART + SSC + IOM-z/PCM												
80C166	80C166-M	20 MHz	Prescaler/ Direct Input	100 ns	-	-	1 KB	256 KB	76	10/10 bit	7	16	-	32/16	2 x USART	-	✓	✓	✓	-	✓	P-MQFP-100					
	83C166-5M					32 KB ROM																					
	80C166W-M					-																					
	83C166W-5M					32 KB ROM																					
C167	C167CR-LM	25 MHz	PLL/ Prescaler/ Direct Input	80 ns	-	-	4 KB	16 MB	111	16/10 bit	9	32	4	56/16	USART + SSC	-	✓	yes + Power Saving Modes	✓	✓	✓	P-MQFP-144					
	C167CR-L33M	33 MHz		60 ns		-																					
	C167CR-4RM	25 MHz		80 ns		32 KB ROM																					
	C167CR-16RM					128 KB ROM																					
	C167SR-LM					-																					
	C167CS-LM					11 KB				24/10 bit																	
	C167CS-4RM																										