

SIEMENS

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	CAN Interface 2.0B active	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 + PC	yes + Power saving	✓	P-MQFP-100
	C161RI-L16M*					3 KB							8 MB	76		4/8 Bit						5	27/16	USART + SSC + PC	yes + Power saving	✓	P-TQFP-100
C164	C164CI-8EM*	20 MHz	PLL/presc. direct input	100 ns	64 K OTP	2 KB	4 MB	59	8/10 Bit	5	8	6	32/16	USART + SSC	✓	yes + Powers.	✓	✓	✓	✓	P-MQFP-80						
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	-																						
	C163-16F25F*	25 MHz		80 ns	128 KB Flash																						
C165	C165-LM	20 MHz	prescaler direct input	100 ns	-	2 KB	16 MB	77	-	5	-	-	28/16	USART + SSP	-	✓	✓	-	✓	P-TQFP-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/ 10 Bit	7	16	-	32/16	2 x USART	-	✓	✓	-	✓	P-MQFP-100							
	SAB80C166-M25	25 MHz		80 ns	-																						
	SAB83C166-5M	20 MHz		100 ns	32 KB ROM																						
	SAB83C166-5M25	25 MHz		80 ns	32 KB ROM																						
	SAB88C166-5M	20 MHz	100 ns	32 KB Flash																							
	SAB80C166W-M	20 MHz	direct input	100 ns	-																						
	SAB83C166W-5M			100 ns	32 KB ROM																						
	SAB88C166W-5M			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				32 KB ROM																						
	C167CR-LM	25 MHz	PLL/ direct input	80 ns	-																						
	C167CR-L25M				80 ns	-																					
	C167CR-4RM	20 MHz	PLL/presc. direct input	100 ns	32 KB ROM																						
	C167CR-16RM				128 KB ROM																						
C167CR-16FM*	128 KB Flash																										

* in preparation

