SIEMENS

C500 Family



	, , , , , , , , , , , , , , , , , , ,																		
Туре	max. Clock Rate (MHz)	ROM (Byte)	ROM Protection	RAM (Byte)	I/O Lines (Inputs only)	ADC-Inputs/ Resolution	Timer/Counter (16-Bit)	Interrupt vectors/Levels	Serial I/0	FCAN 2.0B active	USB 1.0 Interface	PWM	Mul./Div. Unit	Data Pointers (16-Bit)	Hardware Power Down	Watch-dog Timer	Osc Watch-dog	Packaging	
C501G-L / -1R C501G-E	40	-/8k 8k OTP	1	256	32	-	3	6/2	USART	-	-	-	-	1	-	-	-	P-DIP-40 P-LCC-44 P-MQFP-44	Fully compatible with 80C52/C32 standard
C504-L / -2R C504-2E	40	- / 16 16 k OTP	/	512	32	8/10	4	12/2	USART	-	-	6-ch	-	1	-	✓	√	P-MQFP-44	CCU for DC motor control, Interrupt wakeable Power down
C511-R / C511A-R	12	2,5 k / 4 k	-	128 / 256	32	-	2	4/2	SSC	-	-	-	-	1	-	-	-	P-LCC-44	Low Power, Low EMI
C513-1R C513A-L/-R/-2R	12	8 k - 12 k / 16 k	ı	256 512	32	-	3	7/2	USART + SSC	-	-	-	-	1	ı	-	-	P-DIP-40/P-LCC-44 P-MQFP-44	Low Power Low EMI
C505L-4E	202)	32 k OTP	I	512	46	8/10	3	12 / 4	USART	-	-	4-ch	-	8	1	✓	√	P-MQFP-80	LCD Driver on-chip 128 segments; RTC with 32 kHz subclock
C505-L / -2R	202)	-/16 k	1	512	34	8/8	3	12 / 4	USART	-	-	4-ch	-	8	-	✓	1	P-MQFP-44	Enhanced power saving modes; Low EMI, Interrupt wakeable Power down
C505C-L / -2R	202)	-/16 k	1	512	34	8/8	3	12/4	USART	1	-	4-ch	-	8	-	✓	1	P-MQFP-44	Enhanced power saving modes; Low EMI, Interrupt wakeable Power down
C505A-4E	202)	32 k OTP	1	1280	34	8/8	3	12/4	USART	-	-	4-ch	-	8	-	✓	1	P-MQFP-44	Enhanced power saving modes; Low EMI, Interrupt wakeable Power down
C505CA-4E	202)	32 k OTP	1	1280	34	8/8	3	12/4	USART	1	-	4-ch	-	8	-	✓	1	P-MQFP-44	Enhanced power saving modes; Low EMI, Interrupt wakeable Power down
C515-L / -1R	24	-/8k	✓	256	56 (8)	Prog.REF 8/8	3	12 / 4	USART	-	-	4-ch	-	1	-	✓	✓	P-MQFP-80	Compatible with SAB 80C515
C515B-2R ¹⁾ C515A-L / -4R ¹⁾	24	16 k -/32 k	✓	512 1280	56 (8)	8/10	3	12 / 4	USART	-	-	4-ch	-	1	✓	✓	✓	P-MQFP-80	Compatible with SAB 80C515A
C515C-L / -8R C515C-8E	102)	– / 64 k 64 k OTP	1	2304	57 (8)	8/10	3	15 / 4	USART + SSC	1	-	4-ch	-	8	1	✓	1	P-MQFP-80	Low Power, Low EMI
C517A-L / 4R	24	-/32 k	1	2304	68 (12)	12/10	4	17 / 4	USART + UART	-	-	21-ch	✓	8	✓	✓	1	P-MQFP-100	Compatible with SAB 80C517A
C509-L	16 ²⁾	-	-	3328	64 (15)	15/10	5	19/4	USART + UART	-	-	29-ch	-	8	✓	✓	1	P-MQFP-100	CMOS/TTL Ports Bootstrap
C540U-E ¹⁾	122)	4 k OTP	1	256	32 / 30	-	2	7/2	-	-	HUBless	-	-	1	-	-	-	P-SDIP-52/ P-LCC-44	USB-Transceiver-on-chip;
C541U-2E ¹⁾	122)	8 k OTP	✓	256	32 / 30	-	2	7/2	SSC	-	HUBless	-	-	1	-	✓	1	P-SDIP-52/ P-LCC-44	USB-Transceiver-on-chip;
SAB 80C515 SAB 80C535	20	8 k -	√ -	256	56 (8)	Prog. REF 8/8	3	12 / 4	USART	-	-	4-ch	-	1	1	1	-	P-LCC-68	
SAB 80C515A SAB 83C515A-5	18	– 32 k	- /	1280	56 (8)	8/10	3	12 / 4	USART	-	-	4-ch	-	1	1	✓	1	P-LCC-68	
SAB 80C517 SAB 80C537	16	8 k -	√ -	256	68 (12)	Prog. REF 12 / 8	4	14/4	USART + UART	-	-	21-ch	1	8	-	1	1	P-LCC-84	
SAB 80C517A SAB 83C517A-5	18	- 32 k	- ✓	2304	68 (12)	12/10	4	17 / 4	USART + UART	-	-	21-ch	1	8	1	1	1	P-LCC-84	

¹⁾ under development 2) CPU-Clock

Global Partner Chip for Systems on Silicon