

TMS320C2000™ Family (Cont.)

Flash (16-Bit Word)	RAM (16-Bit Word)	ROM (16-Bit Word)	Boot ROM (16-Bit Word)	McBSP	EMIF	Timers	PWM Chan.	SPI	SCI	CAN	MIPS	Operating Voltage (V) Core I/O	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each	1	25	100	Texas Instruments Part No.
64K	18K	1K	4K	Y	—	4	16	Y	2	Y	150	1.8 3.3	150	-40 - 85 -40 - 125	128-LQFP 128-LQFP	296-15988-5-ND◆ 296-17278-ND◆	16.07 20.36	15.00 19.01	13.93 17.65	TMS320F2811PBKA TMS320F2811PBKQ	
128K	18K	1K	4K	—	—	15	16	4	2	2	100	1.8 3.3	100	-40 - 85 -40 - 85 -40 - 85	100-BGA 100-LQFP 100-BGA	296-21878-ND 296-21879-ND◆ 296-21880-ND◆	14.11 14.11 14.11	13.17 13.17 13.17	12.23 12.23 12.23	TMS320F2809GGMA TMS320F2809PZA TMS320F2809ZGMA	
		1K	4K	Y	Y	4	16	Y	2	Y	150	1.8 3.3	150	-40 - 85 -40 - 125 -40 - 125	179-BGA 179-BGA 176-LQFP	296-15989-5-ND 296-17279-ND 296-17280-ND◆	17.05 21.67 21.67	15.91 20.23 20.23	14.78 18.79 18.79	TMS320F2812GHHHA TMS320F2812GHHQ TMS320F2812PGFQ	
		2K	4K	Y	Y	7	16	Y	2	Y	150	1.9 3.3	150	-40 - 85 -40 - 125	179-BGA 179-BGA	296-18338-ND◆ 296-18339-ND◆	17.05 18.79	15.91 17.54	14.78 16.29	TMS320F2812ZHHA TMS320F2812ZHHS	
		32K	1K	8K	Y	—	7	1	Y	2	Y	150	1.8 3.3	150	-40 - 85 -40 - 125 -40 - 125	128-LQFP 128-LQFP 176-LQFP	296-18916-ND◆ 296-18917-ND◆ 296-18918-ND◆	11.06 10.95 11.60	9.97 10.22 10.83	8.84 9.49 10.06	TMS320R2811PBKA TMS320R2811PBKQ TMS320R2812PGFA
256K	36K	2K	8K	Y	Y	4	16	Y	2	Y	150	1.9 3.3	150	-40 - 85	176-LQFP	296-15990-5-ND◆	17.05	15.91	14.78	TMS320F2812PGFA	



RAM (Bytes)	ROM (Bytes)	McBSP††	Timers	MIPS	Operating Voltage (V) Core I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each	1	25	100	Texas Instruments Part No.
TMS320C28x — RoHS Compliant													
256K	2K	2	3	—	1.9	3.3	150	176-LQFP	296-22073-ND	21.73	20.28	18.83	TMX320F2835PGFA

◆ RoHS Compliant Δ Cut Tape ◇ Tape and Reel †† Multi-Channel Buffered Serial Port

TMS470 Family

The TMS470 is derived from the 32-bit ARM7TDMI® core. This industry standard architecture includes two instruction sets, a 32-bit instructions for fast execution and 16-bit instructions for high code density. It allows unlimited switching between instruction sets and also provides run time decompression. Typical applications include industrial systems, medical instrumentation, consumer electronics, data processing and many other general purpose embedded applications.

Flash (KB)	RAM (KB)	Timer Channels	ADC	SPI	SCI	CAN2	I/O 3.3V	Frequency (MHz)	Package	Digi-Key Part No.	Price Each	1	25	100	Texas Instruments Part No.
TMS470R1x															
64	8	13	8 Ch, 10-Bit	2	2	SCC	40	48	80-LQFP	296-19270-ND◆	6.32	5.06	4.27		TMS470R1A64PNT
128	8	16	16 Ch, 10-Bit	2	2	SCC	50	48	100-LQFP	296-19267-ND◆	6.90	5.52	4.66		TMS470R1A128PZ-T
256	12	16	16 Ch, 10-Bit	2	2	SCC	50	48	100-LQFP	296-17754-ND◆	7.09	6.39	5.66		TMS470R1A256PZ
										296-19268-ND◆	6.90	6.21	5.51		TMS470R1A256PZ-T
288	16	16	12 Ch, 10-Bit	2	2	SCC	93	48	144-LQFP	296-18723-ND	8.04	7.25	6.43		TMS470R1A288PGEA
									100-LQFP	296-19269-ND	9.25	8.34	7.39		TMS470R1A288PZA
									144-LQFP	296-21881-ND◆	8.04	7.25	6.43		TMS470R1A288PGET
									100-LQFP	296-21882-ND◆	7.68	6.92	6.14		TMS470R1A288PZ-T
384	32	16	12 Ch, 10-Bit	2	2	SCC	94	48	144-LQFP	296-18724-ND◆	9.19	8.28	7.34		TMS470R1A384PGET
									100-LQFP	296-19292-ND	8.83	7.95	7.05		TMS470R1A384PZ-T
512	32	32	16 Ch, 10-Bit	3	2	HECC	86	60	144-LQFP	296-19855-ND	10.70	9.64	8.55		TMS470R1B512PGET
768	48	32	16 Ch, 10-Bit	5	2	HECC	87	60	144-LQFP	296-19271-ND	14.11	13.17	12.23		TMS470R1B768PGE
									144-LQFP	296-19335-ND◆	12.74	11.90	11.05		TMS470R1B768PGET
1000	64	16	12 Ch, 10-Bit	2	3	HECC	93	60	144-LQFP	296-18591-ND◆	14.76	13.78	12.79		TMS470R1B1000PGEA

◆ RoHS Compliant

DSP Starter Kits

A wide variety of DSP boards and development kits are available from TI and TI's third party network. Products include development boards, evaluation modules, hardware/software bundles and DSP Starter Kits (DSKs) designed to accelerate the application design process from concept through production. DSP Starter Kits are bundled with a DSK-version of TI's Code Composer Studio Development Tools. These provide an excellent platform to evaluate TI DSP and development tools, quickly develop prototypes, demos and proof-of-concept applications at a very affordable getting started price.

Kit Contents:

- Development Board • Parallel PC Cable • US Power Supply • CD-ROM containing documentation and DSK version of Code Composer Studio (TMDSEZD2407: EzDSP version of Code Composer Studio)

Digi-Key Part No.	Price Each	Texas Instruments Part No.	Digi-Key Part No.	Price Each	Texas Instruments Part No.	Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-15828-ND	260.09	TMDSEZD2407	296-23049-ND	452.33	TMDSUBALL	296-23050-ND	373.17	TMDSK5509
296-23002-ND	359.38	TMDSEZS2812	296-23038-ND	373.17	TMDSK6416-TE	296-23051-ND	73.50	TMDSADP1460
296-23003-ND	295.48	TMDS-FET470R1B1M	296-23039-ND	1811.49	TMDSEVM6446-0E	296-23054-ND	113.08	TMDSK33
296-15827-ND	297.78	TMDSK5510	296-23040-ND	373.17	TMDXEV6424	296-23055-ND	297.78	TMDSEZD2812
296-15829-ND	297.78	TMDSK5416	296-23041-ND	297.78	TMDSEZD2812-0E	296-23056-ND	373.17	TMDSUB2000
296-15831-ND	297.78	TMDSK6713	296-23043-ND	2177.41	TMDSEMU560U	296-23057-ND	112.33	TMDSADP1420
296-23033-ND	297.78	TMDSK6713-0E	296-23044-ND	6530.70	TMDSDVSPBA9-L			
296-23034-ND	373.17	TMDXEZ28335	296-23045-ND	373.17	TMDXEZ28044	296-23058-ND	1448.46	TMDSEVM642
296-23035-ND	1811.49	TMDSEVM6446	296-23046-ND	722.42	TMDSCCSALL-1	296-23059-ND	300.80	TMDSDFSFBPK
296-23036-ND	448.56	TMDSK6455	296-23047-ND	373.17	TMDSEZS2808	296-23121-ND	1448.44	TMDXEV6467
296-23037-ND	373.17	TMDXEV355	296-23048-ND	1085.44	TMDSEMUUSB	296-23122-ND	940.21	TMDXV648

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

uk.digikey.com — FREEPHONE: 0-800-587-0991 • 0-800-904-7786 — FREEFAX: 0-800-587-0992 • 0-800-904-7783

(UK091) 665