

**Fixed-Point DSPs**

Device	Target Application Examples	Instruction/Data Width	Accumulator Width	Barrel Shifter No. of Bits	# of Address Generators/Data Buses	Multi-Processor Support	External Address (Kbytes)	Looping Hardware	256-Point FFT (Cycles)	Special Features
Analog Devices ADSP-2100	Modem, cellular base station, handset, etc.	24/16	40	32	2.2	No	4 Mbytes	Yes	11920	Up to 32K words SRAM, 6 DMA channels
ADSP-21 csp01	Cellular base station, DSVD modem, etc.	24/16	40	32	2.2	Yes	48 Mbytes	Yes	7500	5 DMA channels, serial ports
AT&T DSP16xx	Mobile communication, modems	16/16	36	36	2.2	No	64K words	No	21193	Low power (0.7 mA/MIPS)
Motorola DSP561xx	Digital cellular, voice communications	16/16	40	None	2.2	No	128/128 progr/data	Yes	12162	Timer, codec
DSP5600x	Audio, control, modem	24/24	56	None	2.3	No	128/256 progr/data	Yes	8336	On-chip emulation, PLL, timer
Texas Instruments TMS320C2x	Hard disk drivers	16/16	32	16	1.1	Yes	256	Yes	25038	Repeat instructions, expanded RAM/ROM
TMS3200C2xx	Telecom, consumer electronics, security systems	16/16	32	16	1.2	Yes	384	No	25000	On-chip flash
TMS320C5x	Multimedia, cellular, cordless, modems	16/16	32	16	1.2	Yes	384	Yes	13251	Parallel logic unit, wide range of RAM and ROM options
TMS320C54x	Wireless telecomm, networking, multimedia	16/16	40	32	2.3	Yes	384	Yes	9684	Large memory mixes, Viterbi accelerator
TMS320C62x	Cellular base station, security systems, modems, etc.	32/8, 16, 32	40	32	2.2	No	4Gbytes	No	4225 for 16-bit data	Advanced VLIW architecture, 1Mbit on-chip SRAM, DMA coprocessor
TMS320C8x	Videoconferencing, image processing, digital switching	64/16	32	32	2 per DSP/ 2 per process	Yes	4 Gbytes	Yes	4881	4 DSPs and once RISC uP, 50 Kbytes SRAM, DMA coprocessor
RC MODULE NM6403	Cellular base station, telecom, image processing, networking, security systems, multimedia, neural networks	32/8, 16, 32, 64	64	32	2.3	Yes	16 Gbytes	Yes	4070 for 32-bit data	32 bit RISC uP and 1-64 bit VECTOR coprocessor, timers, communication ports, DMA coprocessors, on-chip saturation functions

Source: 3/1/96 EDN's 1996 DSP Chip Directory