



MC8200/MC7200 Series

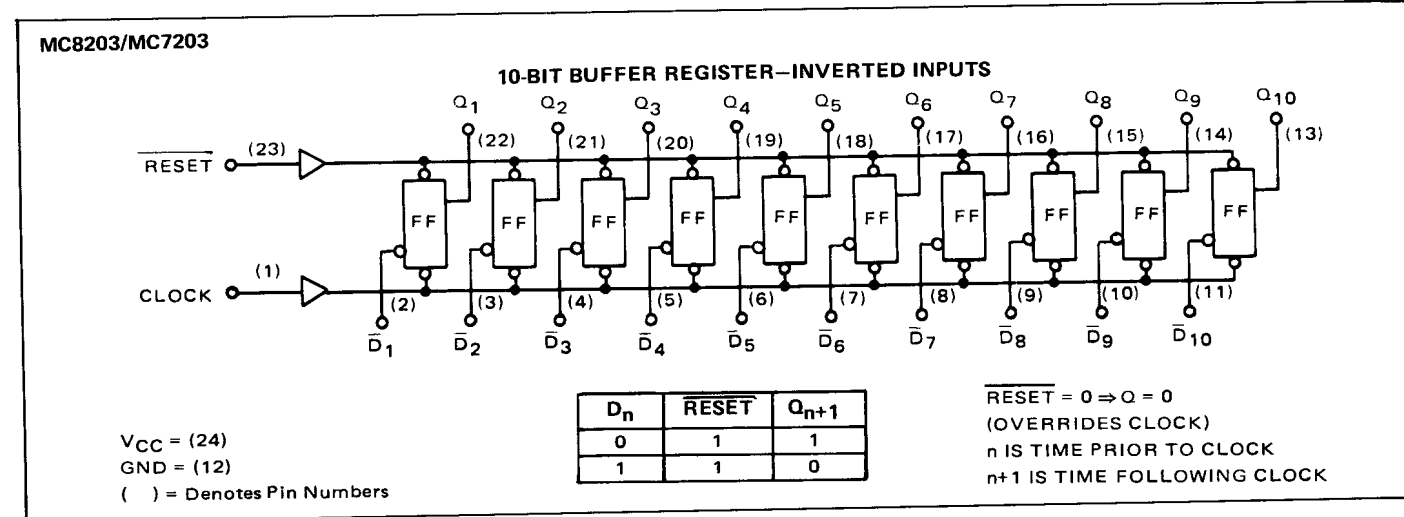
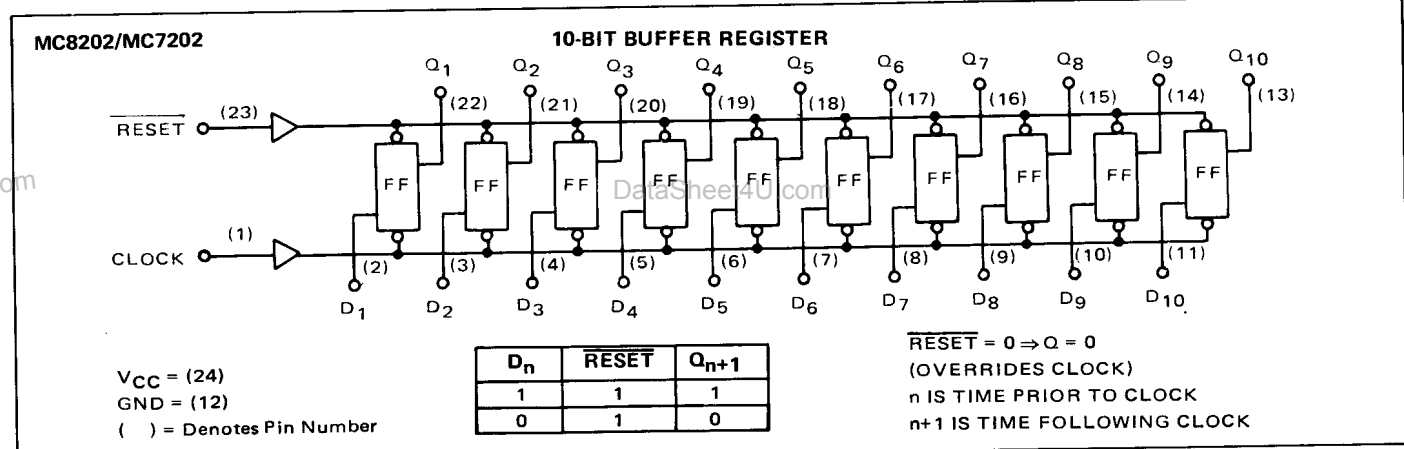
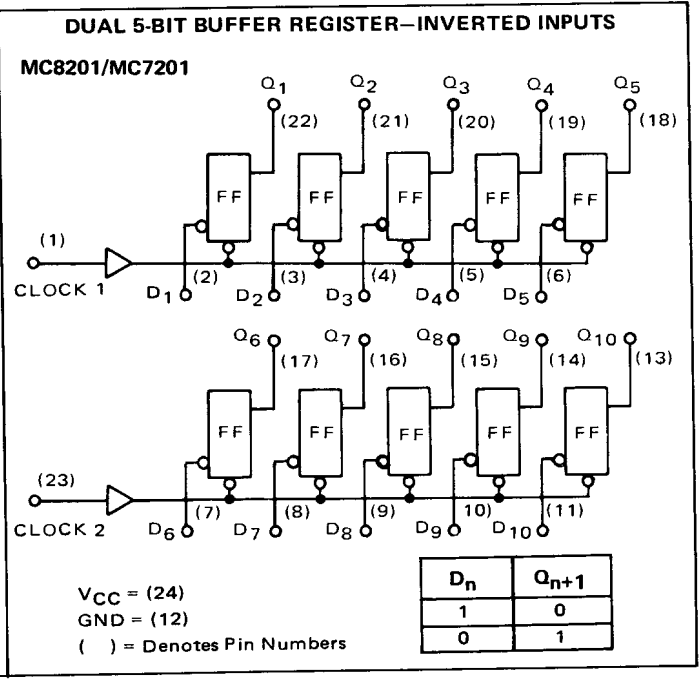
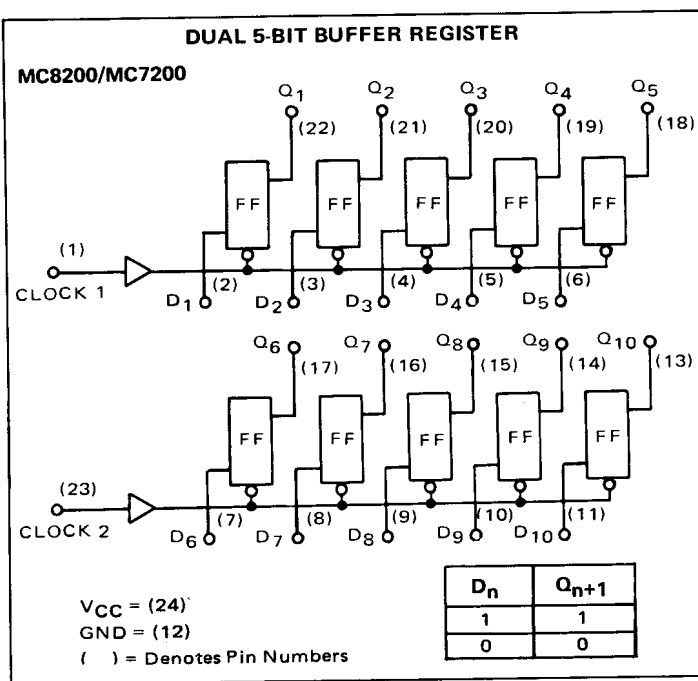
The MTTL complex functions are designed for digital applications in the medium to high-speed range.

These MTTL devices provide significant reduction in package count and increased logic per function over devices in the basic MTTL and MDTL families.

INDEX

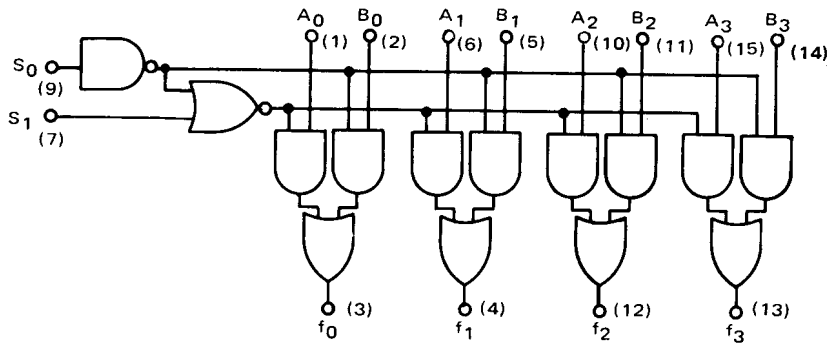
Function	Operating Temperature Range		Packages		
	-55°C TO +125°C	0°C TO +70°C	Dual-in-line		Flat
			Plastic	Ceramic	
Dual 5 Bit Buffer Register	MC8200	MC7200	P	L	F
Dual 5 Bit Buffer Register W/D Inputs	MC8201	MC7201	P	L	F
10 Bit Buffer Register	MC8202	MC7202	P	L	F
10 Bit Buffer Register W/D Inputs	MC8203	MC7203	P	L	F
2 Input 4-Bit Digital Multiplexer	MC8233	MC7233	P	L	F
2 Input 4-Bit Digital Multiplexer	MC8234	MC7234	P	L	F
2 Input 4-Bit Digital Multiplexer	MC8235	MC7235	P	L	F
Quad Exclusive OR	MC8241	MC7241	P	L	F
Quad Exclusive NOR	MC8242	MC7242	P	L	F
Binary To Octal Decoder	MC8250	MC7250	P	L	F
BCD To Decimal Decoder	MC8251	MC7251	P	L	F
Arithmetic Logic Unit	MC8260	MC7260	P	L	F
Fast Carry Extender	MC8361	MC7261	P	L	F
2 Input 4-Bit Digital Multiplexer	MC8266	MC7266	P	L	F
2 Input 4-Bit Digital Multiplexer	MC8267	MC7267	P	L	F
4 Bit Shift Register	MC8270	MC7270	P	L	F
4 Bit Shift Register	MC8271	MC7271	P	L	F
Presetable Decode Counter	MC8280	MC7280	P	L	F
Presetable Binary Counter	MC8281	MC7281	P	L	F
Binary Up/Down Counter	MC8284	MC7284	P	L	F
Decade Up/Down Counter	MC8285	MC7285	P	L	F
Divide by Twelve Counter	MC8288	MC7288	P	L	F
Presetable High Speed Decade Counter	MC8290	MC7290	P	L	F
Presetable High Speed Binary Counter	MC8291	MC7291	P	L	F

MC8200 • MC8201 • MC8202 • MC8203 BUFFER REGISTERS



MC8233 • MC8234 • MC8235 2-INPUT 4-BIT DIGITAL MULTIPLEXER

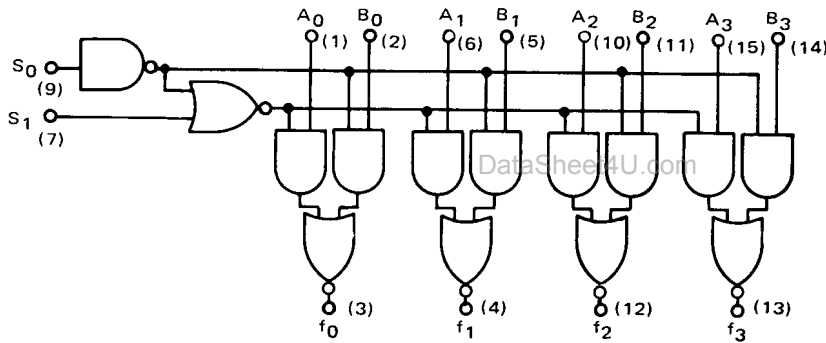
MC8233/MC7233 (ACTIVE PULL-UP)



S ₀	S ₁	f _n
0	0	B
1	0	A
0	1	B
1	1	0

V_{CC} = (16)
 GND = (8)
 () = Denotes Pin Numbers

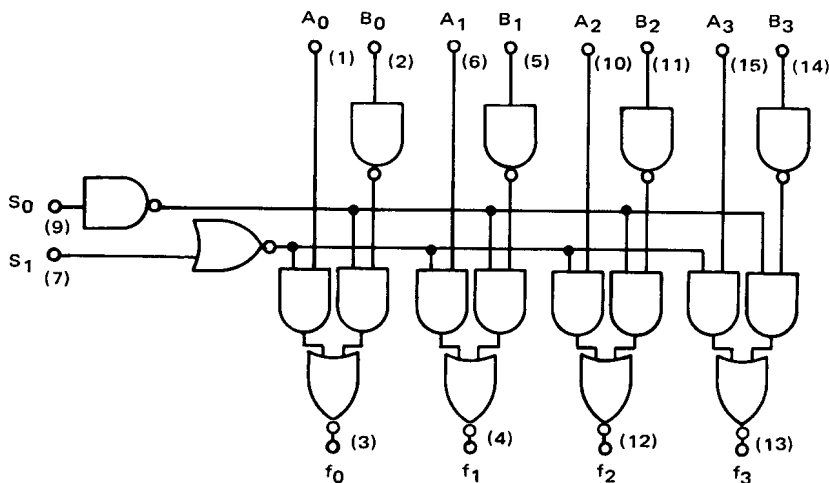
MC8234/MC7234 (OPEN COLLECTOR)



S ₀	S ₁	f _n
0	0	\overline{B}
1	0	\overline{A}
0	1	\overline{B}
1	1	1

V_{CC} = (16)
 GND = (8)
 () = Denotes Pin Numbers

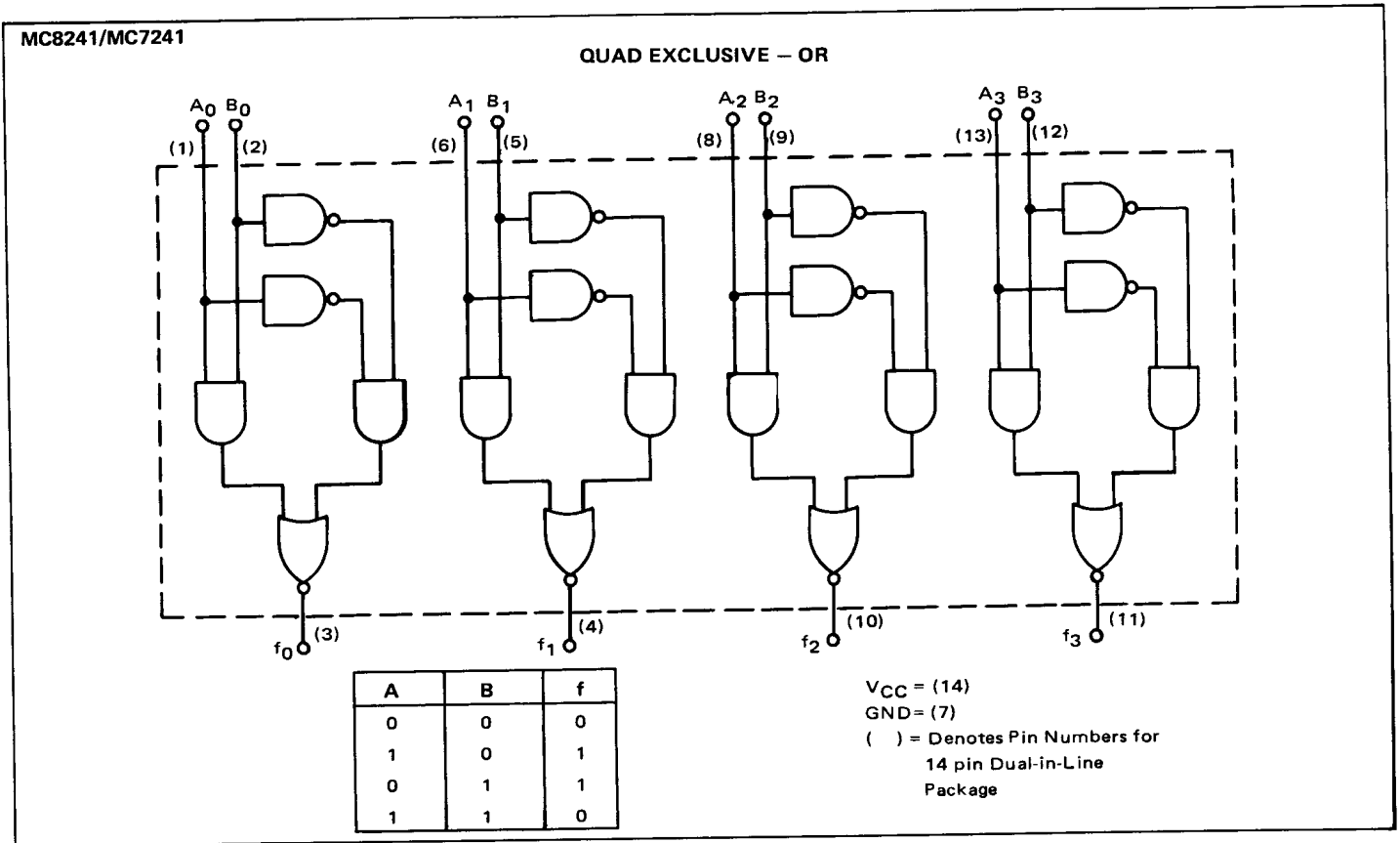
MC8235/MC7235 (OPEN COLLECTOR)



S ₀	S ₁	f _n
0	0	$\overline{A_n}B_n$
0	1	$\overline{B_n}$
1	0	$\overline{A_n}$
1	1	1

V_{CC} = (16)
 GND = (8)
 () = Denotes Pin Numbers

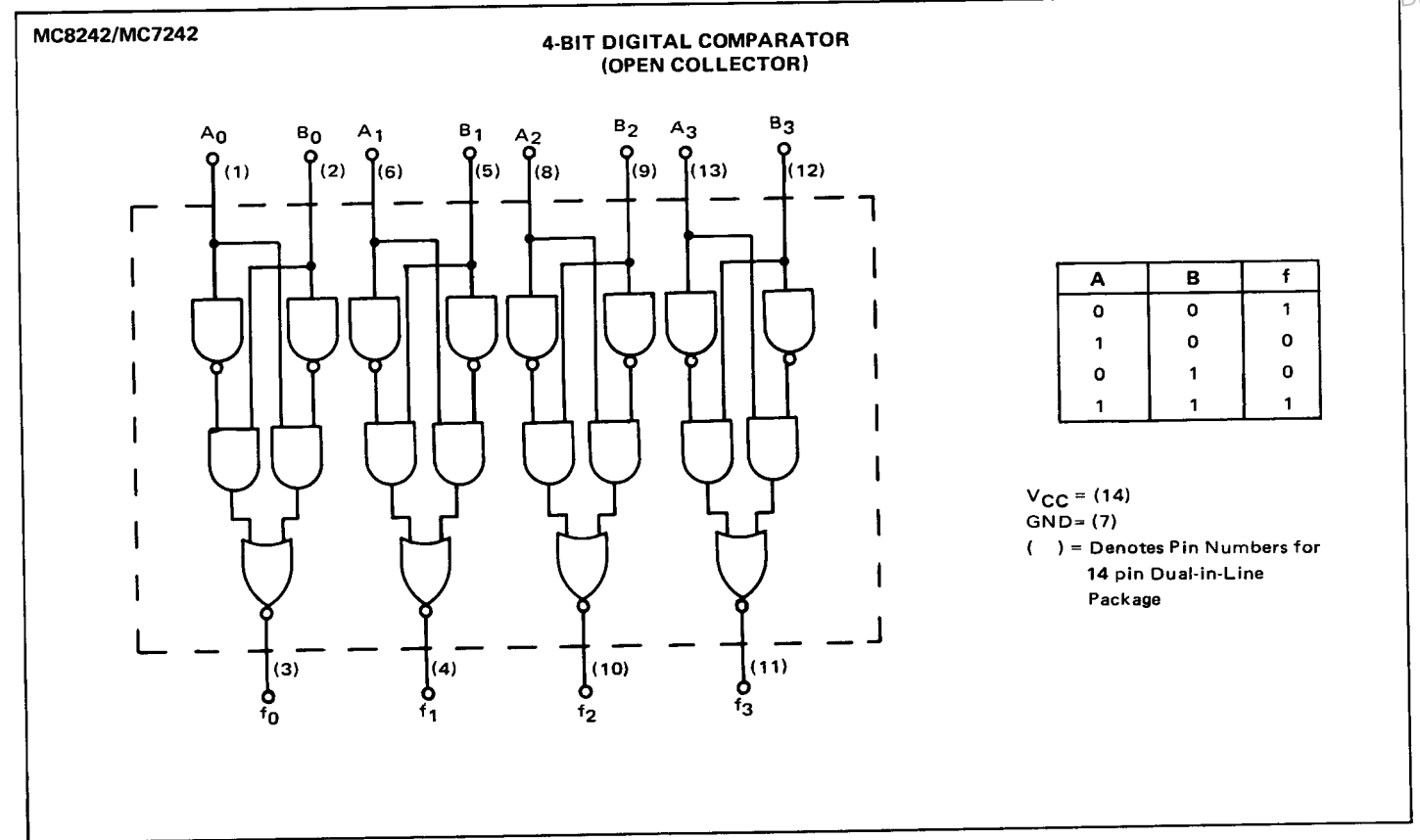
MC8341 QUAD EXCLUSIVE OR • MC8242 QUAD EXCLUSIVE NOR



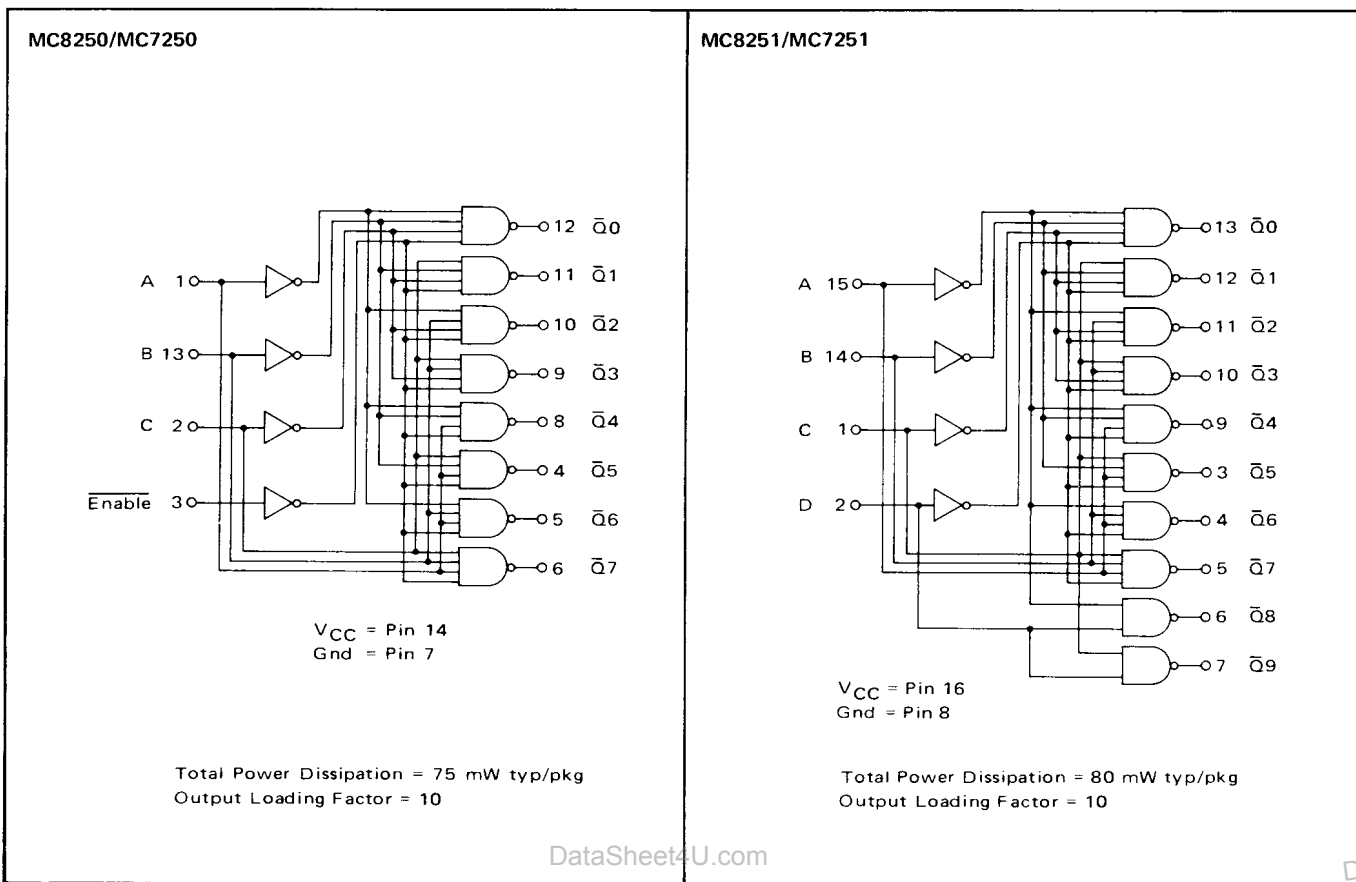
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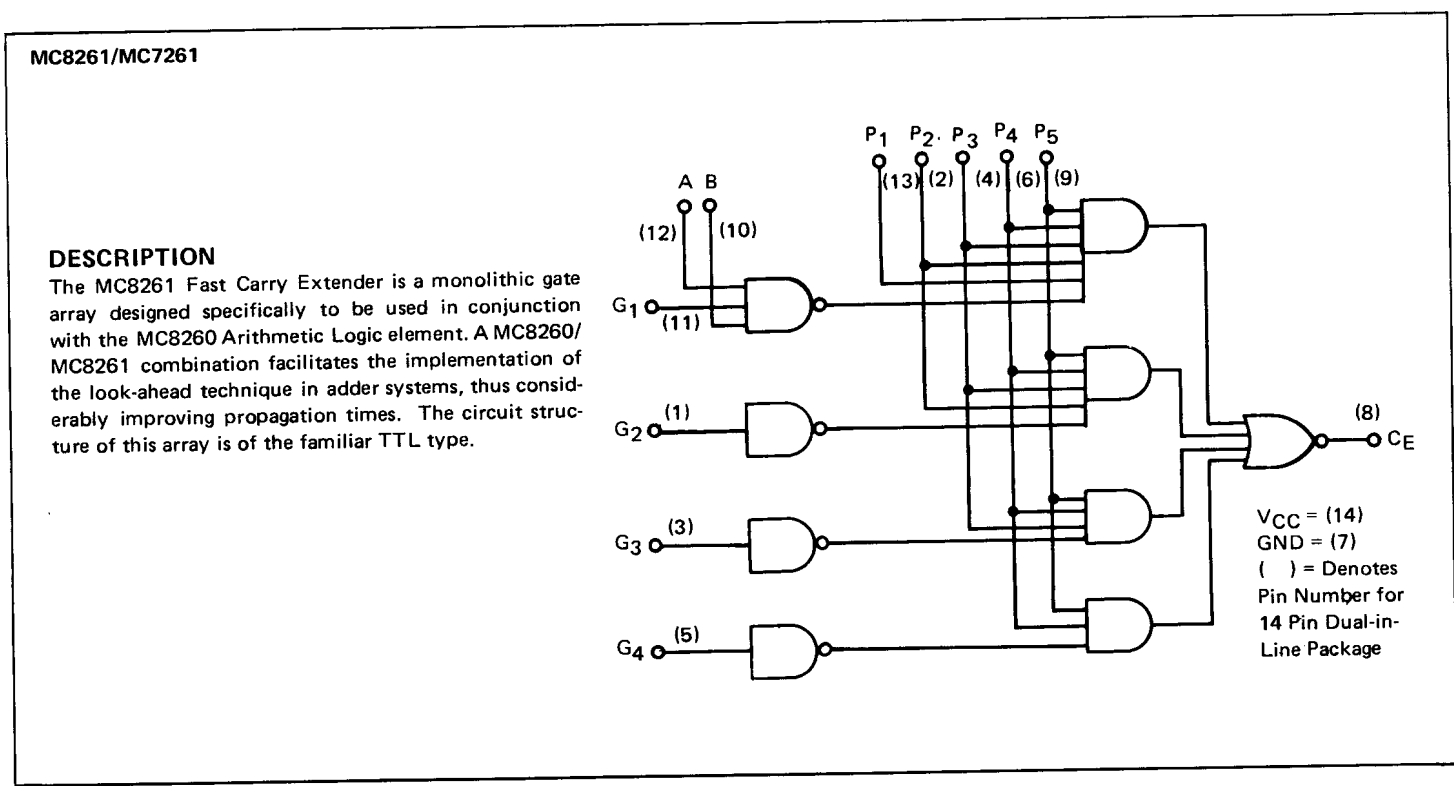
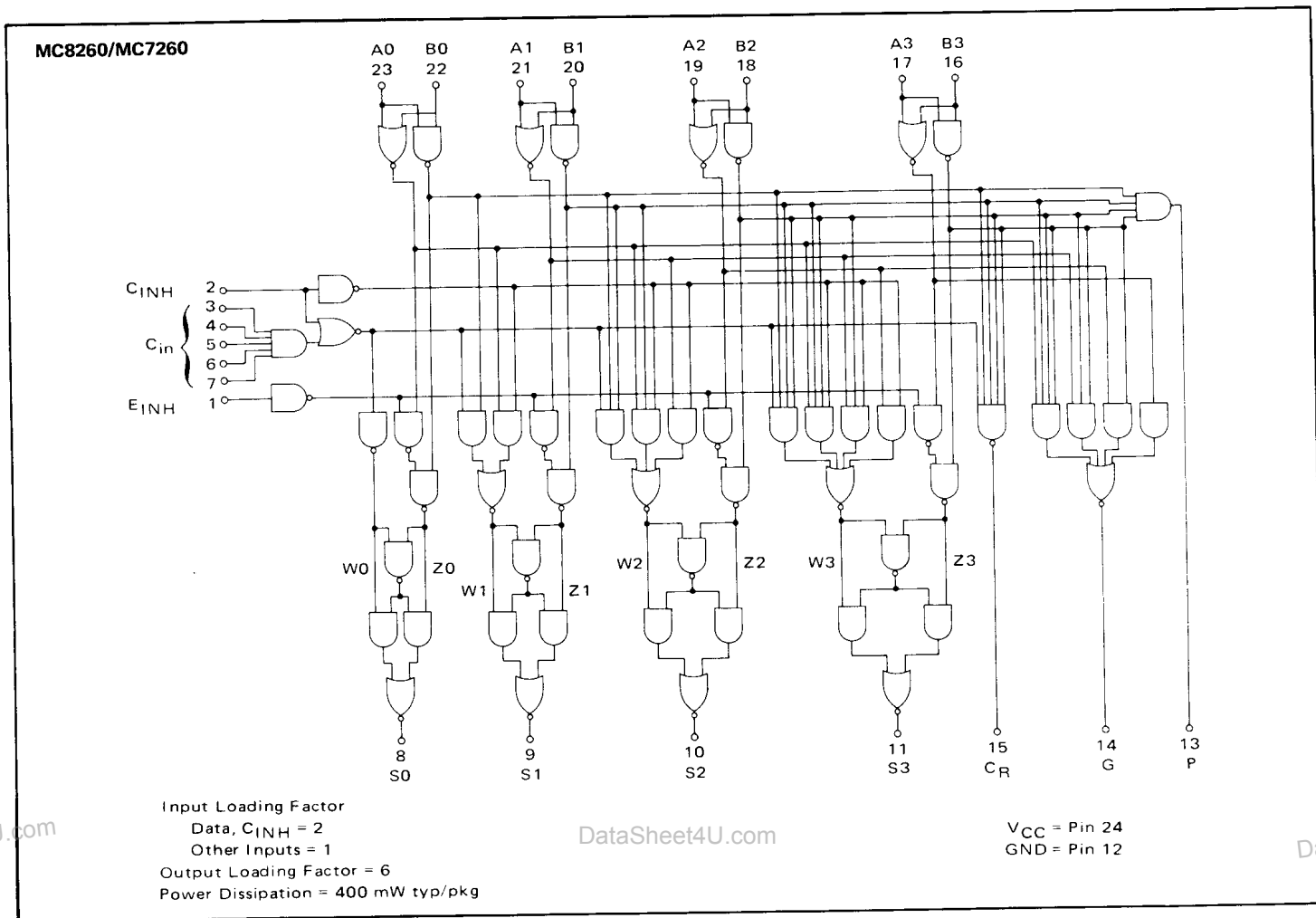


MC8250 BINARY TO ONE-OF-EIGHT DECODER • MC8251 BINARY TO ONE-OF-TEN DECODER

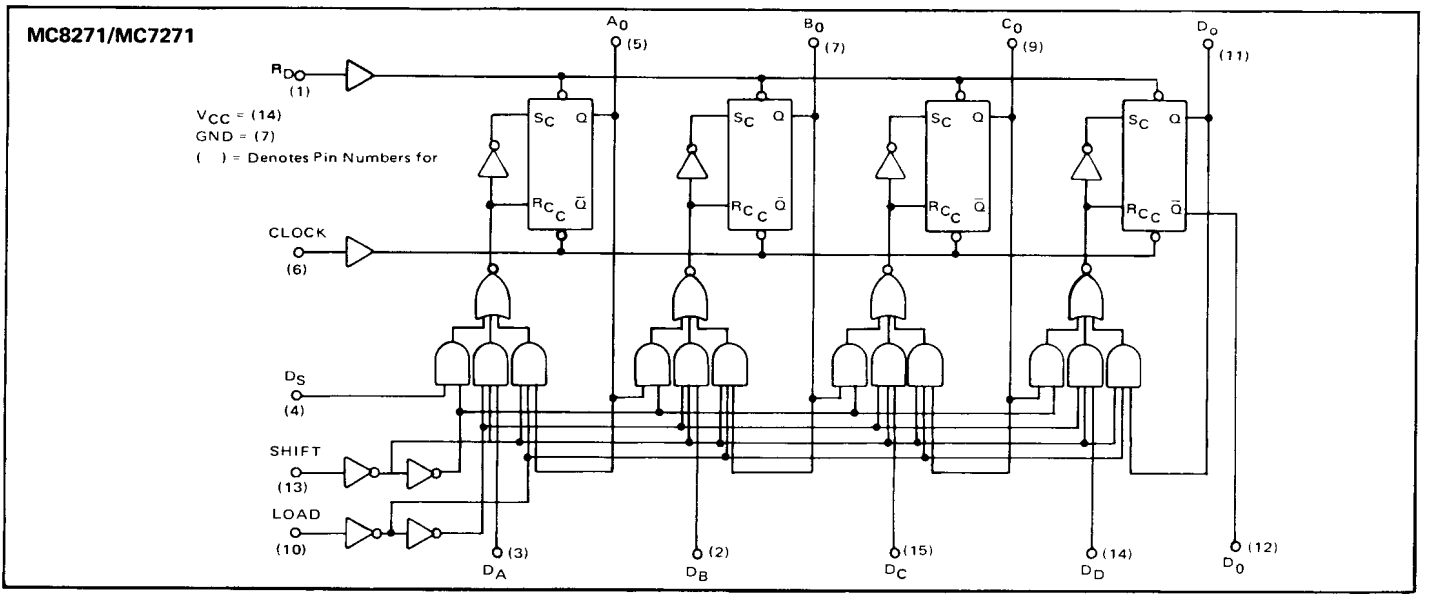
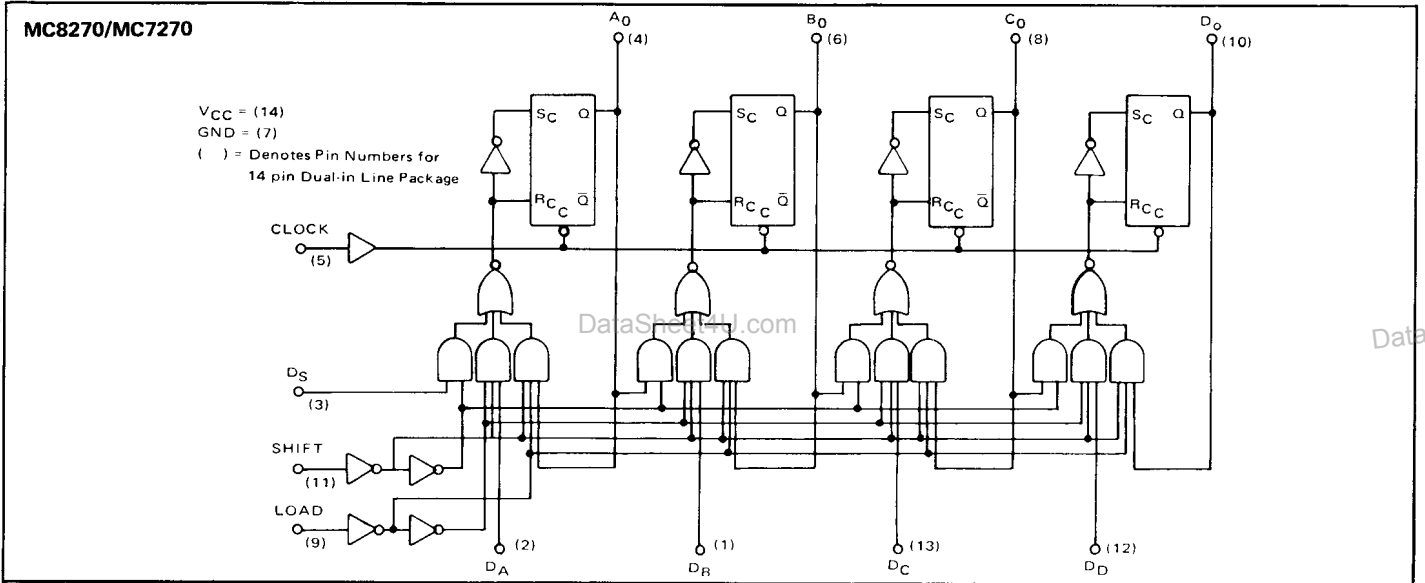
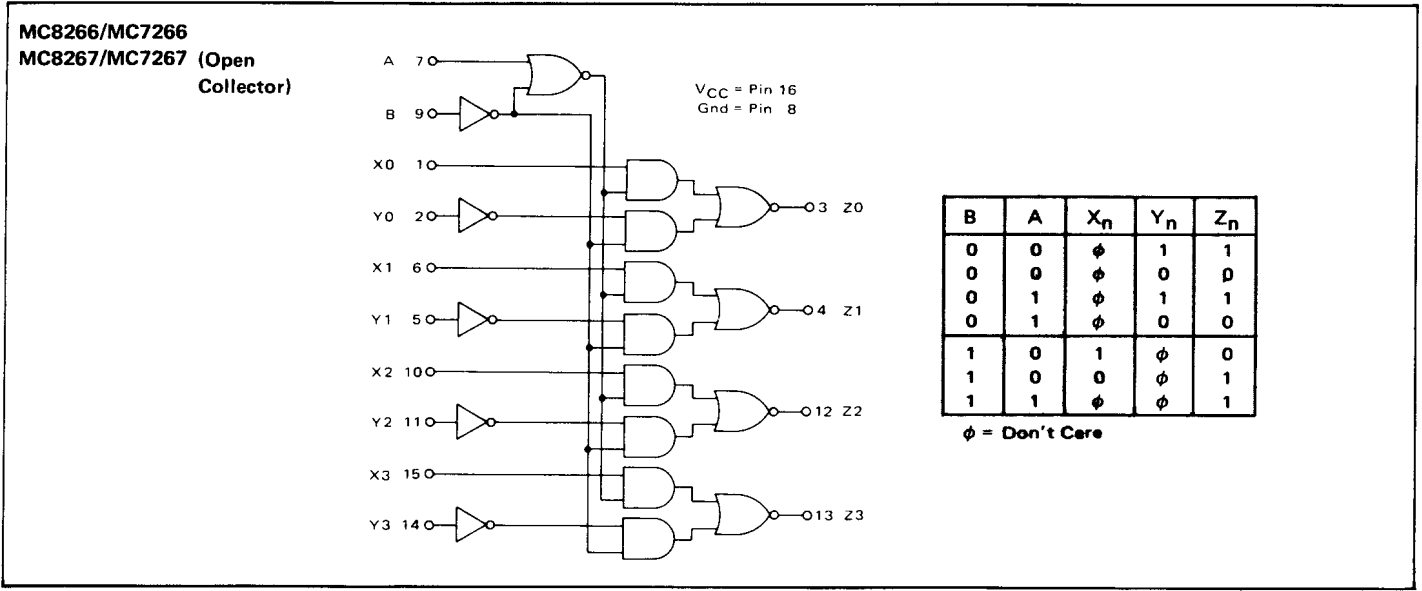


BOTH TYPES INPUT				MC8250/MC7250 OUTPUT								MC8251/MC7251 OUTPUT									
E/D	C	B	A	7	6	5	4	3	2	1	0	9	8	7	6	5	4	3	2	1	0
0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1
0	0	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1
0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
0	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
0	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
1	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1

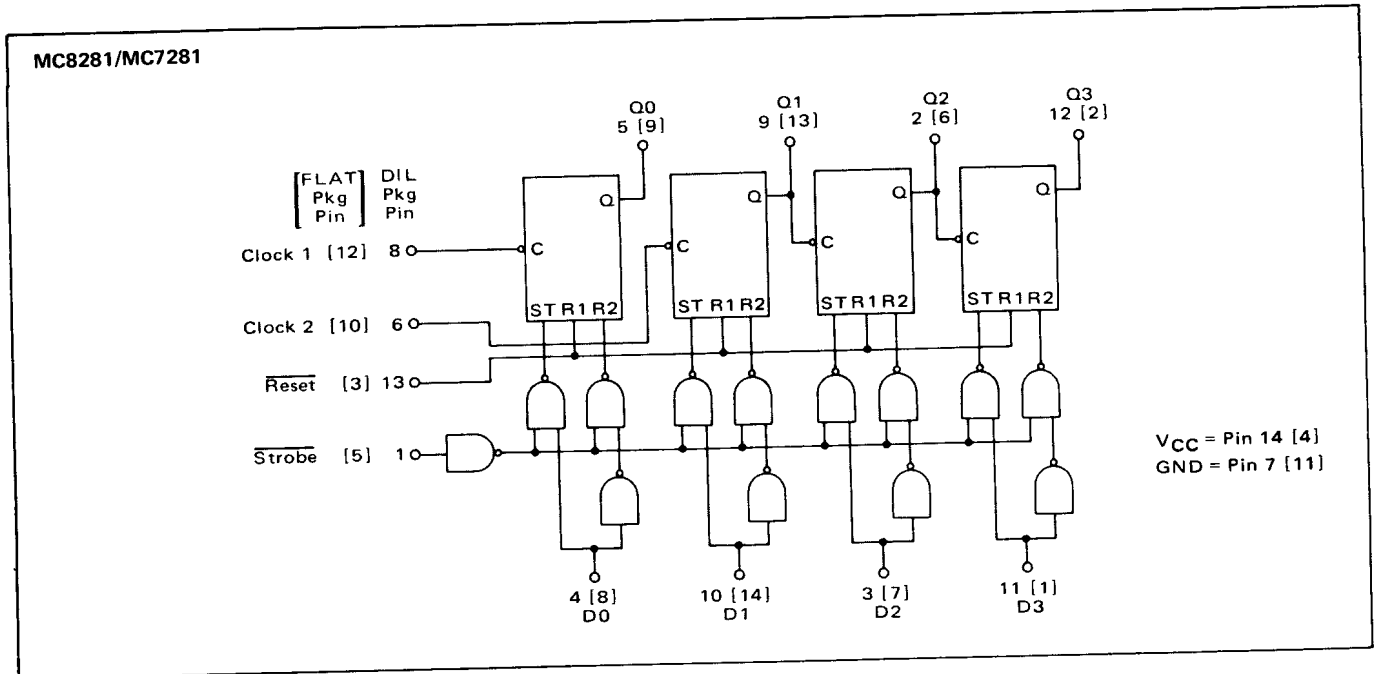
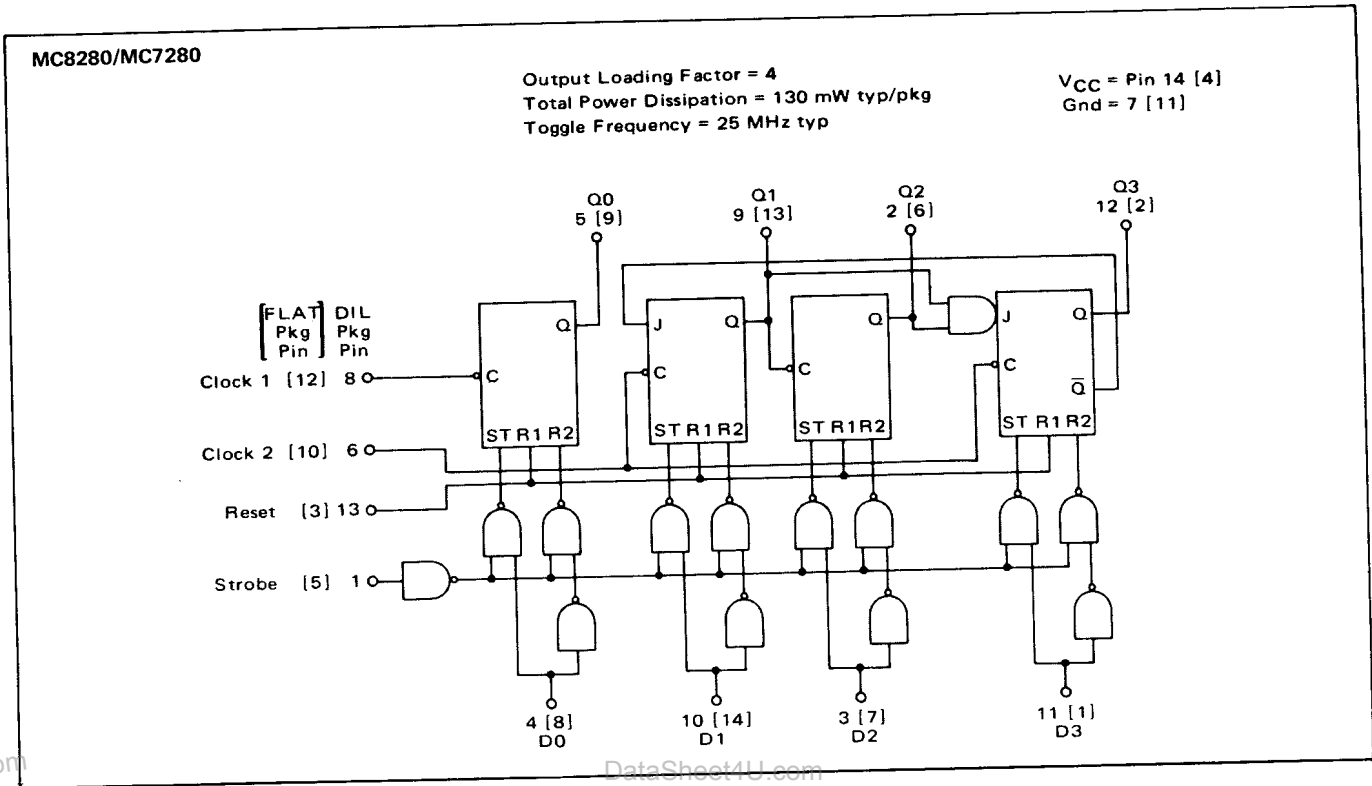
MC8260 ARITHMETIC LOGIC ELEMENT • MC8261 FAST CARRY EXTENDER



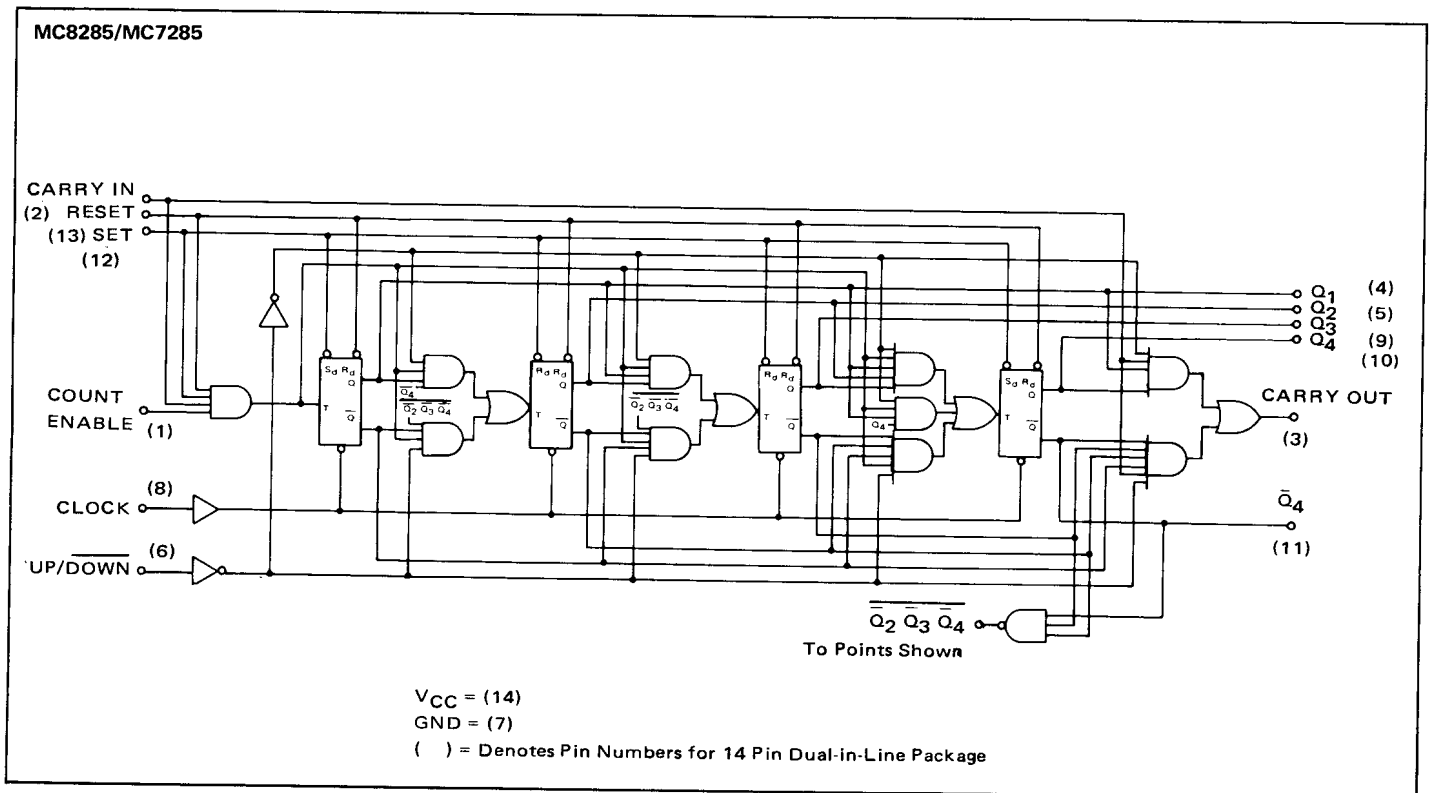
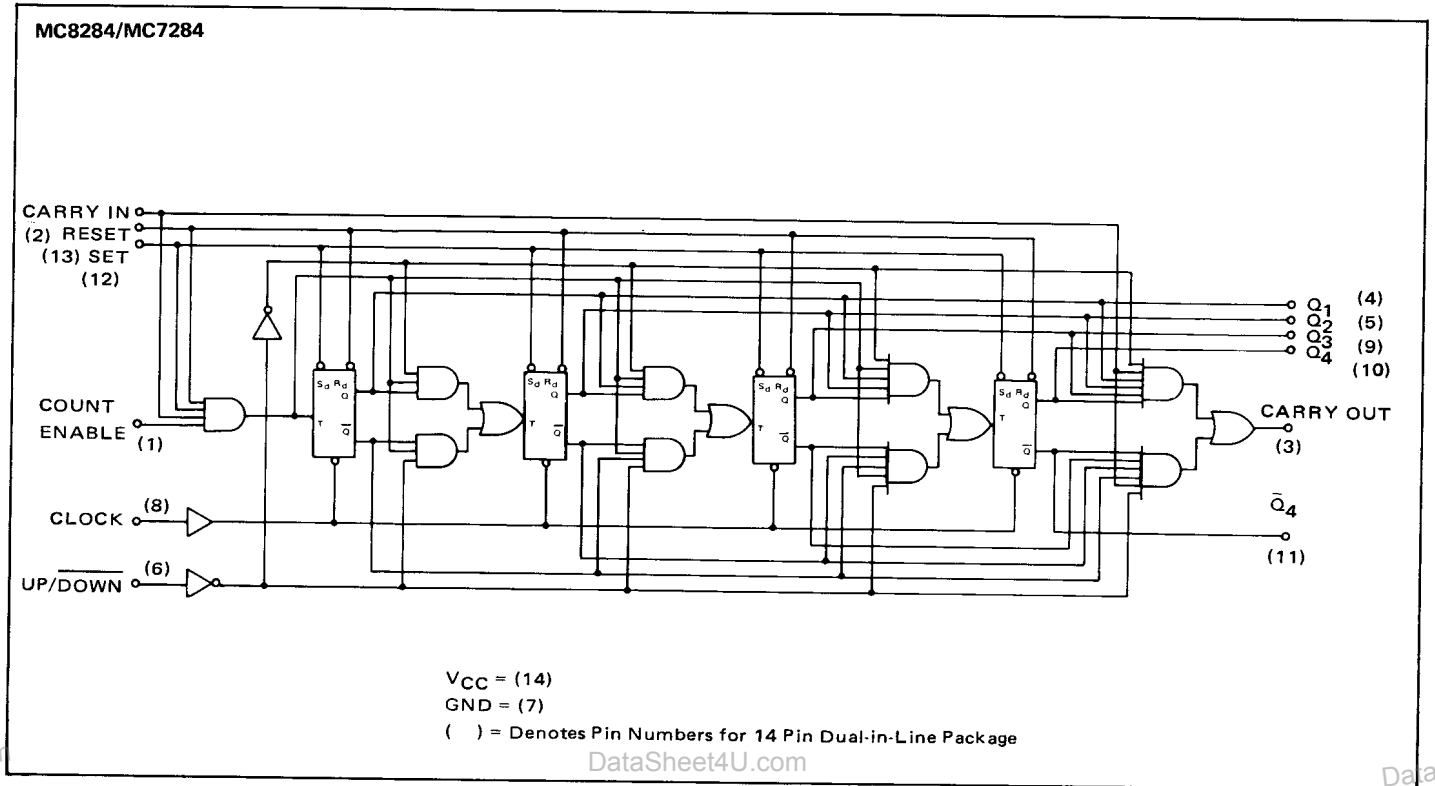
MC8266 2-INPUT, 4-BIT DATA SELECTOR • MC8267 2-INPUT, 4-BIT DATA SELECTOR
MC8270 • MC8271 4-BIT SHIFT REGISTERS



MC8280 PRESETTABLE DECADE COUNTER • MC8281 PRESETTABLE BINARY COUNTER



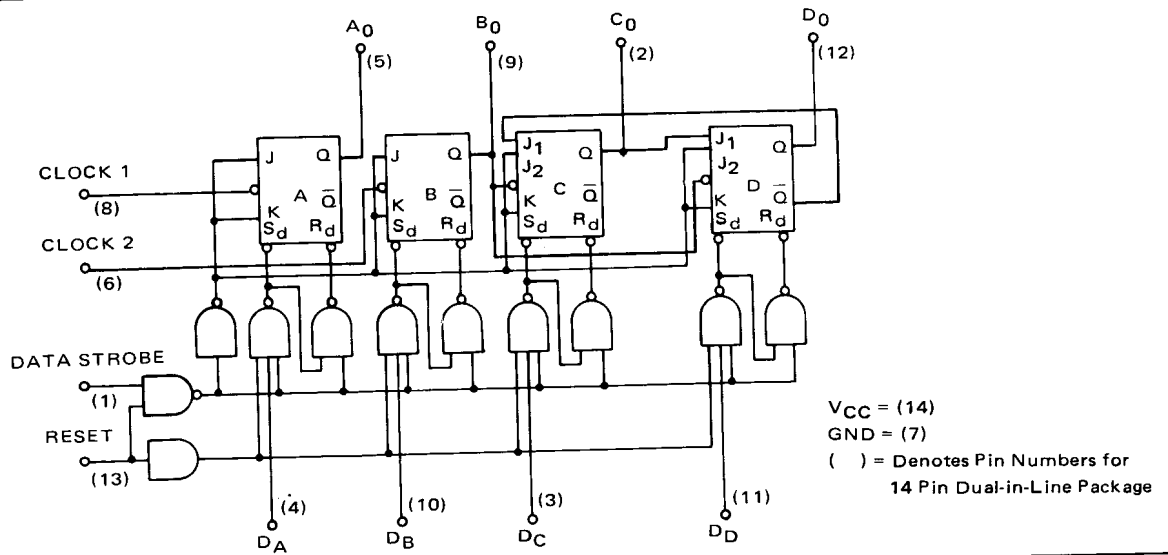
MC8284 • MC8285 BINARY HEXADECIMAL AND BCD DECADE, SYNCHRONOUS UP/DOWN COUNTERS



MC8288 DIVIDE-BY-TWELVE COUNTER/STORAGE ELEMENT

MCM8290 • MC8291 PRESETTABLE HIGH SPEED • DECADE/BINARY COUNTER

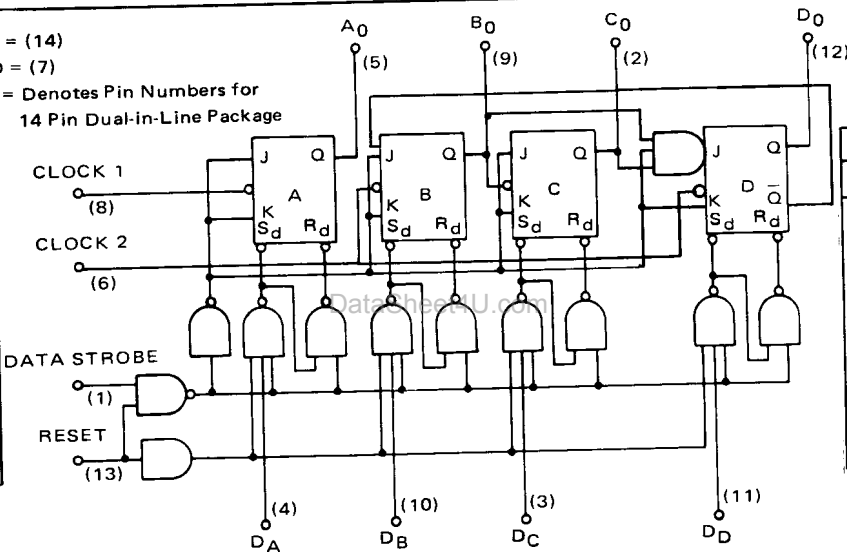
MC8288/MC7288



MC8290/MC7290

V_{CC} = (14)
GND = (7)
() = Denotes Pin Numbers for 14 Pin Dual-in-Line Package

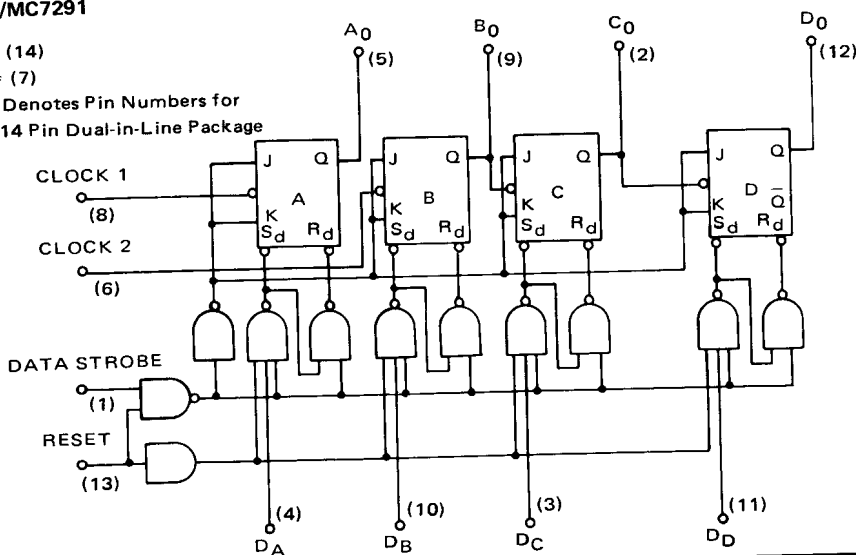
Bi-Quinary (5-2)				
Input	B ₀	C ₀	D ₀	A ₀
0	0	0	0	0
1	1	0	0	0
2	0	1	0	0
3	1	1	0	0
4	0	0	0	1
5	0	0	0	1
6	1	0	0	1
7	0	1	0	1
8	1	1	0	1
9	0	0	1	1



Decade (BCD)				
Input	A ₀	B ₀	C ₀	D ₀
0	0	0	0	0
1	1	0	0	0
2	0	1	0	0
3	1	1	0	0
4	0	0	1	0
5	1	0	1	0
6	0	1	1	0
7	1	1	1	0
8	0	0	0	1
9	1	0	0	1

MC8291/MC7291

V_{CC} = (14)
GND = (7)
() = Denotes Pin Numbers for 14 Pin Dual-in-Line Package



Binary				
Input	A ₀	B ₀	C ₀	D ₀
0	0	0	0	0
1	1	0	0	0
2	0	1	0	0
3	1	1	0	0
4	0	0	1	0
5	1	0	1	0
6	0	1	1	0
7	1	1	1	0
8	0	0	0	1
9	1	0	0	1
10	0	1	0	1
11	1	1	0	1
12	0	0	1	1
13	1	0	1	1
14	0	1	1	1
15	1	1	1	1