

# Guida alla scelta dei gruppi logici serie 74 e cmos serie 4000

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<b>AND</b>		strobed Hex inverting	<b>4502B</b>	Decade sync. clear	<b>40162B</b>	decoder	<b>4555B</b>
Triple 3-input	<b>4073B</b>	Hex 3-state	<b>4503B</b>	Hex 3-state	<b>40163B</b>	Dual binary to 1 of 4	<b>4556B</b>
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Dual 4-input	<b>4082B</b>					decoder	<b>4558B</b>
<b>OR</b>		<b>flip-flops (bistables)</b>		<b>shift registers</b>			
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Dual 4-input	<b>4072B</b>	Dual J-K	<b>4027B</b>	8-bit	<b>4014B</b>		
Triple 3-input	<b>4075B</b>	Quad latch	<b>4042B</b>	Dual 4-bit	<b>4015B</b>		
Exclusive OR		Quad R-S latch 3-state	<b>4043B</b>	8-bit	<b>4021B</b>		
Quad 2-input	<b>4070B</b>	Quad R-S latch 3-state	<b>4044B</b>	4-bit FIFO	<b>4035B</b>		
<b>NAND</b>		Quad D register 3-state	<b>4076B</b>	8-stage with storage	<b>4094B</b>		
Quad 2-input	<b>4011B</b>	Quad D register 3-state		4-bit bi-directional		<b>arithmetic functions</b>	
Quad 2-input	<b>4011UB</b>	8-bit addressable latch	<b>4099B</b>	universal	<b>4194B</b>	4-bit full adder	<b>4008B</b>
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Dual 4-input	<b>4012UB</b>	Quad D-type	<b>4175B</b>	1 to 64 bit variable length	<b>4557B</b>	Triple serial adder - logic	<b>4038B</b>
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Triple 3-input	<b>4023UB</b>	4 x 4 multiport register	<b>4580B</b>			BCD rate multiplier	<b>4527B</b>
8-input	<b>4068B</b>	8-bit bus compatible				Dual 4-channel analogue	
<b>NOR</b>		counter latch	<b>4597B</b>			data selector	<b>4529B</b>
Dual 3-input with inverter	<b>4000UB</b>	8-bit bus latch 3-state	<b>4598B</b>			12-bit parity tree	<b>4531B</b>
Quad 2-input	<b>4001B</b>	8-bit addressable latch	<b>4599B</b>			Successive approximation	
Quad 2-input	<b>4001UB</b>			<b>encoders, decoders/drivers/ multiplexers/de-multiplexers</b>		register	<b>4549B</b>
Dual 4-input	<b>4002B</b>	<b>Counters</b>		BCD-decimal, binary-		Successive approximation	
Dual 4-input	<b>4002UB</b>	decade/divider	<b>4017B</b>	octal	<b>4028B</b>	register	<b>4559B</b>
Triple 3-input	<b>4025B</b>	divide by n	<b>4018B</b>	8-input analogue		BCD adder	<b>4560B</b>
Triple 3-input	<b>4025UB</b>	14-bit binary	<b>4020B</b>	multiplexer	<b>4051B</b>	9's complementer	<b>4561B</b>
8-input	<b>4078B</b>	Octal/divider	<b>4022B</b>	Dual 4-input analogue			
Exclusive NOR		7-stage binary	<b>4024B</b>	multiplexer	<b>4052B</b>	4-bit magnitude	
Quad 2-input	<b>4077B</b>	Pre-settable binary/BCD,		Triple 2-input analogue		comparator	<b>4585B</b>
AND-OR		up/down	<b>4029B</b>	multiplexer	<b>4053B</b>		
		12-bit binary	<b>4040B</b>			<b>miscellaneous</b>	
		14-bit binary	<b>4060B</b>			Quad switch	<b>4016B</b>
				16-channel analogue		8-bit universal bus	
Dual expandable				multiplexer/de-		register	<b>4034B</b>
AND-OR invert	<b>4506UB</b>	Synchronous pre-settable		multiplexer	<b>4067B</b>	Phase locked loop	<b>4046B</b>
Schmitt		BCD 4-bit binary	<b>4161B</b>	Dual 8-channel analogue		Mono/astable	
Quad 2-input NAND	<b>4093B</b>			multiplexer/de-		multivibrator	<b>4047B</b>
Hex Inverting	<b>4106B</b>			multiplexer	<b>4097B</b>	Quad switch	<b>4066B</b>
Dual	<b>4583B</b>	Synchronous pre-settable		BCD-7-segment latch/ driver	<b>4511B</b>	Industrial control unit	<b>4500B</b>
Hex	<b>4584B</b>	4-bit binary	<b>4163B</b>	8-channel data selector	<b>4512B</b>	TTL or C-MOS to C-MOS	
Hex inverting	<b>40106B</b>	BCD up/down	<b>4510B</b>	BCD to 7 segment latch/ decoder/driver	<b>4513B</b>	hex level shifter	<b>4504B</b>
Majority		Binary up/down	<b>4516B</b>	4-bit latch, 4 to 16 line	<b>4514B</b>	Dual re-settable	
Dual 5-bit	<b>4530B</b>	Dual BCD up	<b>4518B</b>	4-bit latch, 4 to 16 line		monostable	<b>4528B</b>
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Multifunction expandable		24-stage frequency		Quad 2-input multiplexer	<b>4519B</b>	Dual monostable	
Triple gate	<b>4501UB</b>	divider	<b>4521B</b>	8-bit priority encoder	<b>4532B</b>	multivibrator	<b>4538B</b>
Hex gate	<b>4572UB</b>	BCD programmable		Dual 4-input multiplexer	<b>4539B</b>	Programmable timer	<b>4541B</b>
Buffers		divider	<b>4522B</b>	latched LCD driver BCD		Industrial timebase	
Dual complementary pair		Binary programmable		to 7 segment	<b>4543B</b>	generator	<b>4566B</b>
with inverter	<b>4007UB</b>	divider	<b>4526B</b>	BCD to 7 segment latch/ decoder/driver	<b>4544B</b>	Phase comparator and	
		5 cascaded BCD counters	<b>4534B</b>	to 7 segment		programmable counter	<b>4568B</b>
		3-digit BCD	<b>4553B</b>	High current BCD to 7			
		Programmable dual 4-bit		segment decoder/driver	<b>4547B</b>		
		binary/BCD down	<b>4569B</b>	Quad 2-input analogue			
Hex inverting	<b>4049B</b>			multiplexer	<b>4551B</b>		
Hex inverting	<b>4049UB</b>	Decade async. clear	<b>40160B</b>			<b>B</b> - buffered	
Hex	<b>4050B</b>					<b>UB</b> - unbuffered	

No.	Description	Pins	No.	Description	Pins	No.	Description	Pins
<b>74 Series SEE PAGE 549 to 561</b>								
00	Quad 2 Input NAND Gate	14	259	8 Bit Addressable Latch	16	4502	Strobed Hex Inverter/Buffer	16
01	Quad 2 Input NAND Gate (OC)	14	260	Dual 5 Bit Input NOR Gate	14	4503	Tri-State Hex Buffer	16
02	Quad 2 Input Positive NOR Gate	14	269	8 Bit Up/Down Counter	24	4504	Hex Level Shifter	16
03	Quad 2 Input Positive NAND Gate	14	273	Octal D Type Flip/Flop with Clear	20	4506	Dual Expandable AND/OR Gate	16
04	Hex Inverter	14	279	Quad R-S Latch	16	4508	Dual 4 Bit Latch	24
05	Hex Inverter (OC)	14	280	9 Bit Parity Generator/Checker	14	4510	BCD Up/Down Counter	16
06	Hex Inverter Buffer/Driver (OC)	14	283	4 Bit Binary Adder	16	4511	BCD to 7 Segment Decoder/Driver	16
07	30V,40mA Hex Buffer/Driver (OC)	14	294	16 Bit Programmable Frequency Divider	16	4512	8 Channel Data Selector	16
08	Quad 2 Input Positive AND Gate	14	297	Digital Phase Locked Loop	16	4513	BCD-to-7-Segment Latch/Decoder/Driver with Ripple Blanking	18
09	Quad 2 Input Positive AND Gate (OC)	14	299	8 Bit Shift/Storage Register	20	4000 Series (see pages 561 to 564)		
10	Triple 3 Input Positive NAND Gate	14	321	Crystal Oscillator	16	4001	Quad 2 Input NOR Gate	14
11	Triple 3 Input Positive AND Gate	14	365	Tri-State Hex Buffer	16	4002	Dual 4 Input NOR Gate	14
14	Hex Schmitt Trigger	14	367	Tri-State Hex Inverter	16	4006	18 Bit Static Shift Register	14
16	Hex Inverter Buffer/Driver (OC)	14	368	Tri-State Hex Inverter	16	4007	Dual Complementary Pair plus Inverter	14
17	15V,40mA Hex Buffer/Driver (OC)	14	373	Tri-State Octal Transparent Latch	20	4008	4 Bit Full Adder	16
20	Dual 4 Input Positive NAND Gate	14	374	Tri-State Octal D Flip/Flop	20	4010	Hex Buffer (Non-Inverting)	16
21	Dual 4 Input Positive AND Gate	14	375	Quad Latch	16	4011	Quad 2 Input NAND Gate	14
25	Dual 4 Input Positive NOR Gate	14	377	Octal D Type Flip/Flop with Enable	20	4012	Dual 4 Input NAND Gate	14
26	Quad 2 Input NAND Gate (OC)	14	378	Hex D Flip/Flop with Enable	16	4013	Dual D Flip/Flop with Set/Reset	14
27	Triple 3 Input NOR Gate	14	390	Dual Decade Ripple Counter	16	4014	8 Bit Static Shift Register	16
28	Quad 2 Input NOR Buffer	14	393	Dual 4 Bit Binary Ripple Counter	14	4015	Dual 4 Bit Static Shift Register	16
30	8 Input Positive NAND Gate	14	399	Quad 2 Input Multiplexer	16	4016	Quad Bi-Lateral Switch	14
31	Delay Element	16	423	Multivibrator (no trigger from clear)	16	4017	Decade Counter/Divider	16
32	Quad 2 Input Positive OR Gate	14	465	Octal Buffer Tri-State Output	20	4018	Pre-settable Divide-by-N Counter	16
33	Quad 2 Input NOR Buffer (OC)	14	521	Octal Comparator	20	4019	Quad AND/OR Select Gate	16
37	Quad 2 Input Positive NAND Buffer	14	534	Inverting Octal D Flip/Flop	20	4020	14 Stage Ripple Carry Binary Counter	16
38	Quad 2 Input NAND Buffer (OC)	14	540	Octal Buffer and Line DR/RX Inverted	20	4021	8 Bit Static Shift Register	16
42	BCD to Decimal Decoder	16	541	Octal Buffer and Line DR/RX Non-Inverting	20	4022	Divide-by-8 Counter/Divider	16
45	BCD to Decimal Decoder/Driver (OC)	16	543	Octal Registered Transceiver	24	4023	Triple 3 Input NAND Gate	14
46	BCD to 7 Segment Decoder/Driver (30V)	16	563	Inverted Octal D Type Latch	20	4024	7 Bit Binary Counter	14
47	BCD to 7 Segment Decoder/Driver (15V)	16	569	Synchronous Bi-Directional Binary Counter	20	4025	Triple 3 Input NOR Gate	14
48	BCD to 7 Segment Decoder/Driver	16	573	Octal D Type Latches	20	4027	Dual J-K Flip/Flop	16
51	Dual 2 Wide 2 Input AND/OR Inv. Gate	14	574	Octal D Type Flip/Flop	20	4028	BCD-to-Decimal Decoder	16
73	Quad J-K Master Slave Flip/Flop	14	576	Inverting Octal D Type Flip/Flop	20	4029	Pre-settable Up/Down Binary/Decade Counter	16
74	Dual D Type Edge Triggered Flip/Flop	14	579	8 Bit Up/Down Counter	20	4030	Quad EX-OR Gate	14
75	Quad Bi-Stable Latch	16	580	Inverting Octal D Type Latch	16	4035	4 Bit Shift Register	16
76	Dual J-K Master Slave Flip/Flop	16	589	8 Bit Shift Register with Input Latch	16	4040	12 Bit Binary Ripple Counter/Divider	16
77	4 Bit Bi-Stable Latch	16	592	8 Bit Binary Counter with Input Register	16	4041	Quad True/Complement Buffer	14
83	4 Bit Binary Full Adder	16	593	8 Bit Binary Counter, O/P Register TS V/O	16	4042	Quad D Latch	16
85	4 Bit Magnitude Comparator	16	595	8 Bit Shift Register with Output Latch	16	4043	Quad Tri-State NOR R/S Latch	16
90	Decade Counter	14	597	8 Bit Shift Register with Input Latch	16	4044	Quad Tri-State NAND R/S Latch	16
93	4 Bit Binary Counter	14	604	16 to 8 Multiplexer (High Speed)	28	4046	Phase Locked Loop	16
97	6 Bit Asynchronous Binary Rate Multiplier	16	624	Voltage Controlled Oscillator	14	4047	Monostable/Astable Multivibrator	14
107	Dual J-K Master Slave Flip/Flop	14	628	Voltage Controlled Oscillator	14	4049	Hex Inverting Buffer	16
109	Dual J-K Positive Edge Triggered Flip/Flop	16	629	Voltage Controlled Oscillator	16	4050	Hex Buffer	16
112	Dual J-K Negative Edge Triggered Flip/Flop	16	640	Octal Bus Transceiver	20	4051	Single 8 Channel Multiplexer	16
121	One Shot Multivibrator	14	641	Octal Bus Transceiver	20	4052	Differential 4 Channel Multiplexer	16
122	Retriggerable Monostable Multivibrator	14	645	Octal Bus Transceiver	24	4053	Triple 2 Channel Multiplexer	16
123	Dual One Shot Multivibrator	16	646	Octal TS Bus Transceiver Non-Inverting	24	4056	BCD to 7 Segment LCD Decoder/Driver	16
124	Dual Voltage Controlled Oscillator	16	652	Octal Bus Transceiver Non-Inverting	24	4059	Programmable Divide-by-N Counter	24
125	Tri-State Quad Buffer	16	670	Tri-State 4 4 Register File	24	4060	14 Stage Ripple Carry Binary Counter	16
126	Tri-State Quad Buffer	14	674	16 Bit Shift Register, 16 Bit Parallel Output	20	4063	4 Bit Magnitude Comparator	16
128	Quad 2 Input NOR Line Driver	14	682	8 Bit Magnitude Comparator	20	4066	Quad Bi-Lateral Switch	14
132	Quad Schmitt Trigger	14	684	8 Bit Magnitude Comparator	20	4067	16 Channel Analogue Multiplexer/Demultiplexer	24
133	13 Input NAND Gate	16	688	8 Bit Magnitude Comparator	24	4068	8 Input NAND Gate	14
136	Quad Exclusive OR Gate (OC)	14	821	10 Bit D Type Flip/Flop	24	4069	Hex Inverter	14
137	3/8 Decoder Multiplexer	16	825	8 Bit D Type Flip/Flop	24	4070	Quad Exclusive OR Gate	14
138	Expandable 3/8 Decoder	16	827	10 Bit Buffer/Line Driver	24	4071	Quad 2 Input OR Gate	14
139	Dual 2 to 4 Decoder Demultiplexer	16	841	10 Bit Transparent Latch	24	4072	Dual 4 Input OR Gate	14
140	Dual 4 Input NAND Line Driver	14	843	9 Bit Transparent Latch	14	4073	Triple 3 Input AND Gate	14
145	BCD to Decimal Decoder/Driver (OC)	16	849	Hex Buffer (TTL Interface)	14	4075	Triple 3 Input OR Gate	14
147	10 to 4 Line Priority Encoder	16	906	Open Drain Buffer (Active Pull Down)	8	4076	Tri-State Quad Latch	16
148	8 to 3 Priority Encoder	16	908	Dual High Voltage CMOS Driver	28	4077	Quad Exclusive NOR Gate	14
150	16 Line Multiplexer	24	912	Display Controller 6 Digit, 8 Segment	18	4081	Quad 2 Input AND Gate	14
151	8 Line Multiplexer	16	914	Hex Schmitt Trigger, External Voltage Inputs	20	4082	Dual 4 Input AND Gate	14
153	Dual 4 Input Multiplexer	16	922	16 Key Keyboard Encoder	20	4085	Dual 2 Wide Input AND/OR Invert Gate	14
154	4 Line to 16 Line Decoder Demultiplexer	24	923	20 Key Keyboard Encoder	20	4086	Expandable 4 Wide, 2 Input AND-OR-INVERT Gate	14
155	Dual 2 to 4 Demultiplexer	16	925	4 Digit Counter, Multiplexed 7 Segment Drive	24	4093	Quad 2 Input NAND Schmitt Trigger	14
156	Dual 2 to 4 Demultiplexer (OC)	16	2244	Octal Tri-State Buffer with Resistor	20	4094	8 Stage Shift and Store Bus Register	16
157	Quad 2 Input Multiplexer (9322)	16	2245	Octal Tri-State Transceiver with Resistor	24	4098	Retriggerable Dual Monostable Multivibrator	16
158	Quad 2 Input Data Selector/Multiplexer	16	3245	Tri-State Octal Translating Transceiver	24	4099	8 Bit Addressable Latch	16
159	4 to 16 Line Decoder	24	3257	Quad 2:1 Mux/Demux Bus Switch	24	4104	Tri-State Quad Low Voltage to High Voltage Translator	16
160	Synchronous 4 Bit Decade Counter	16	3383	Octal Bus Exchange Switch	24	4106	Hex Schmitt Trigger (40106)	14
161	Synchronous 4 Bit Binary Counter	16	3384	10 Bit Bus Switch	24	4161	4 Bit Synchronous Programmable Binary Counter	16
163	Binary Synchronous 4 Bit Counter	16	4002	Dual 4 Input NOR Gate	14	4163	4 Bit Synchronous Programmable Binary Counter	16
164	8 Bit Serial In/Parallel Out Shift Register	14	4016	Quad Bi-Lateral Switch	16	4174	Hex D-type Flip-Flops	16
165	8 Bit Parallel In/Serial Out Shift Register	16	4017	Decade Counter/Divider	16	4175	4 D-type Flip-Flops	16
166	8 Bit Parallel In/Serial Out Shift Register	16	4020	14 Stage Ripple Carry Binary Counter	16	4194	4 Bit Bidirectional Shift Register	16
169	Synchronous 4 Bit Binary Up/Down Counter	16	4024	7 Bit Binary Counter	16	4500	Industrial Control Unit	20
173	Tri-State Quad D Flip/Flop	16	4026	12 Bit Binary Ripple Counter/Divider	16	4501	Dual 4-Input NAND, 2-Input NOR/OR, 8-Input AND/NAND Gate	16
174	Hex D Type Flip/Flop with Clear	16	4040	12 Bit Binary Ripple Counter/Divider	16			
175	Quad D Type Edge Triggered Flip/Flop	16	4046	Phase Locked Loop	16			
189	64 Bit BIPOLAR Scratch Pad Memory	16	4049	Hex Inverting Buffer	16			
190	Synchronous Decade Up/Down Counter	16	4050	Hex Buffer	16			
191	Synchronous Binary Up/Down Counter	16	4051	Single 8 Channel Multiplexer	16			
193	Synchronous Binary Up/Down Counter	16	4052	Differential 4 Channel Multiplexer	16			
194	4 Bit Bi-Directional Universal Shift Register	16	4053	Triple 2 Channel Multiplexer	16			
195	4 Bit Parallel Access Shift Register	16	4059	Programmable Divide-by-N Counter	24			
221	Dual Monostable Multivibrator with Clear	16	4060	14 Stage Ripple Carry Binary Counter	16			
237	3 to 8 Line Latched Decoder	16	4066	Quad Bi-Lateral Switch	14			
238	3 to 8 Line Non-Inverting Decoder	16	4067	16 Channel Analogue Multiplexer/Demultiplexer	24			
240	Octal Tri-State Inverter Buffer	20	4075	Triple 3 Input OR Gate	14			
241	Octal Tri-State Buffer	20	4078	8 Input NOR/OR Gate	14			
243	Quad Bus Transceiver	14	4094	8 Bit Shift Register/Latch	16			
244	Octal Tri-State Buffer	20	4245	Tri-State Octal Translating Transceiver	24			
245	Octal Tri-State Transceiver	20	4316	Quad Analogue Switch	16			
251	Data Selector/Multiplexer	16	4351	8 Channel Analogue Multiplexer/Demultiplexer	20			
253	Tri-State Dual 4 Input Multiplexer	16	4511	BCD to 7 Segment Decoder Driver	16			
257	Tri-State Quad 2 Input Multiplexer	16	4514	4 Bit Latch/4 to 16 Line Decoder (High)	24			
258	Tri-State Quad 2 Input Multiplexer	16	4515	4 Bit Latch/4 to 16 Line Decoder (Low)	24			