

FAIRCHILD DIGITAL

TTL

SSI FUNCTIONS

Item	Function ⁽¹⁾	9000 Series 8 ns/10 mW	Low Power Schottky 54LS/74LS 5 ns/2 mW	Std. TTL 54/74 10 ns/10 mW	High Speed 54H/74H 6 ns/22 mW	High Speed Schottky 54S/74S 3 ns/19 mW	Logic/Connection Diagram ⁽²⁾	Packages ⁽³⁾
NAND Gates								
1	Hex Inverters	9016	54LS/74LS04	54/7404	54H/74H04	54S/74S04 9S04A	D1	3I,6A,9A
2	Hex Inverts (OC)	9017	54LS/74LS05	54/7405	54H/74H05	54S/74S05 9S05A	D1	3I,6A,9A
3	Hex Inverter (15 V)	—	—	54/7416	—	—	D1	3I,6A,9A
4	Hex Inverter (30 V)	—	—	54/7406	—	—	D1	3I,6A,9A
5	Hex Schmitt Trigger	—	54LS/74LS14	54/7414	—	—	D1	3I,6A,9A
6	Quad 2-Input	9002	54LS/74LS00	54/7400	54H/74H00	54S/74S00	D2	3I,6A,9A
7	Quad 2-Input (OC)	9012	54LS/74LS03	54/7403	54H/74H01	54S/74S03	D2	3I,6A,9A
8	Quad 2-Input (OC)	—	—	54/7401	—	—	D3	3I,6A,9A
9	Quad 2-Input (12 V)	—	54LS/74LS26	7426	—	—	D2	3I,6A,9A
10	Quad 2-Input (48 mA)	—	54LS/74LS37	54/7437	—	—	D2	3I,6A,9A
11	Quad 2-Input (OC/48 mA)	—	74LS38	54/7438	—	—	D2	3I,6A,9A
12	Quad 2-Input Line Dvr	96101	—	54/7439	—	—	D3	3I,6A,9A
13	Quad 2-Input Schmitt	—	74LS132	54/74132	—	54S/74S132	D2	3I,6A,9A
14	Triple 3-Input	9003	54LS/74LS10	54/7410	54H/74H10	54S/74S10	D4	3I,6A,9A
15	Triple 3-Input (OC)	—	—	54/7412	—	—	D4	3I,6A,9A
16	Dual 4-Input	9004	54LS/74LS20	54/7420	54H/74H20	74S20	D5	3I,6A,9A
17	Dual 4-Input Schmitt	—	54LS/74LS13	54/7413	—	—	D65	3I,6A,9A
18	Dual 4-Input (OC)	—	54LS/74LS22	54/7422	54H/74H22	74S22	D5	3I,6A,9A
19	Dual 4-Input Buffer	9009	54LS/74LS40	54/7440	54H/74H40	54S/74S40	D5	3I,6A,9A
20	Dual 4-Input Line Dvr	—	—	—	—	54S/74S140	D5	3I,6A,9A
21	8-Input	9007	—	—	—	—	D6	3I,6A
22	8-Input	—	54LS/74LS30	54/7430	54H/74H30	54S/74S30	D7	3I,6A,9A
23	13-Input	—	54LS/74LS133	—	—	54S/74S133	D8	4L,6B,9B
24	12-Input (3S)	—	—	—	—	54S/74S134	D9	4L,6B,9B

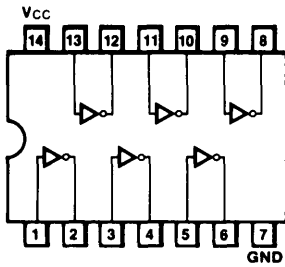
Notes on following pages

FAIRCHILD LOGIC/CONNECTION DIAGRAMS

DIGITAL - TTL

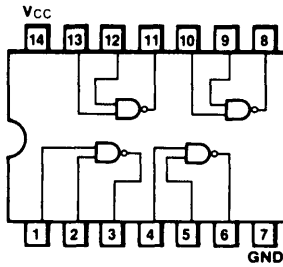
D1

9016, 9S04, 54/7404,
54H/74H04, 54S/74S04,
54LS/74LS04, 9017,
9S05A, 54/7405,
54H/74H05, 54S/74S05,
54LS/74LS05, 54/7406,
54/7414, 54LS/74LS14,
54/7416



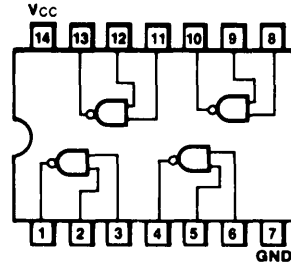
D2

9002, 54/7400,
54H/74H00, 54S/74S00,
54LS/74LS00, 9012,
54H/74H01, 54/7403,
54S/74S03, 54LS/74LS03,
7426, 54LS/74LS26
54/7437, 54LS/74LS37,
54/7438, 74LS38, 54/74132,
54S/74S132, 74LS132



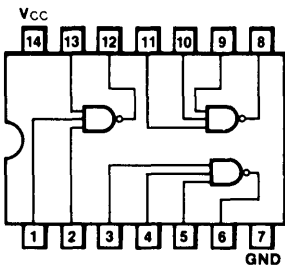
D3

54/7401, 96101, 54/7439



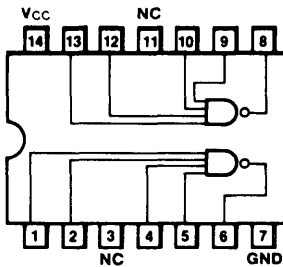
D4

9003, 54/7410, 54H/74H10,
54S/74S10, 54LS/74LS10,
54/7412



D5

9004, 54/7420, 54H/74H20,
54S/74S20, 54LS/74LS20,
54/7422, 54H/74H22,
74S22, 54LS/74LS22,
9009, 54/7440, 54H/74H40,
54S/74S40, 54LS/74LS40,
54S/74S140



D6

9007

