



**Other Fairchild Digital Families  
And Application Notes**

## LIST OF OTHER FAIRCHILD DIGITAL PRODUCTS AND APPLICATION NOTES

In addition to TTL, Fairchild also manufactures other digital logic integrated circuit families. Further information on these other products is available on request from:

Fairchild Semiconductor  
P.O. BOX 880A  
Mountain View, California 94040  
Att. Distribution Services

### CTL—COMPLEMENTARY TRANSISTOR LOGIC

#### 9952 Series (CTL I)

9030	8-Bit Memory Cell
9952	Dual 2-Input NOR Gate
9953	AND/OR Gate
9954	AND/OR Gate
9955	AND/OR Gate
9956	Dual 2-Input Buffer
9957	Flip-Flop
9964	AND/OR Gate
9965	AND/OR Gate
9966	AND/OR Gate
9967	Flip-Flop
9968	Dual High Speed Latch
9971	AND/OR Gate
9972	AND/OR Gate

#### 9852 Series (CTL II)

9801	Dual Gated Phase Splitter NOR/OR
9806	Hex Inverter NOR/OR
9816	Hex Restorer (Buffer) AND/OR Gate
9820	100 $\Omega$ Line Receiver
9821	100 $\Omega$ Line Driver
9822	Dual Full Adder/Subtractor
9823	Carry Lookahead Logic for 9822
9824	4-Bit Comparator
9828	Dual JK-D Flip-Flop
9834	Quad Latch (with output gating)
9838	1-of-8 Decoder
9852	Dual 2-Input Inverter NOR/OR
9853	2-2-3-Input AND/OR Gate
9854	Dual 4-Input AND/OR Gate
9855	Single 8-Input AND/OR Gate
9856	Dual 2-Input Restorer (Buffer) AND/OR Gate
9863	9874 (minus 2 k $\Omega$ resistors) AND/OR Gate
9864	3-1-3-Input AND/OR Gate
9865	Quad 1-Input AND/OR Gate
9866	Quad 2-Input (one pair or tied) AND/OR Gate
9871	Quad 2-Input (pairs or tied) AND/OR Gate
9872	9866 (minus 2 K Input resistors) AND/OR Gate
9874	3-2-2-2-Input AND/OR Gate
9875	4-3-3-Input AND/OR Gate
9877	Micro Operator
9881	8-Input Multiplexer
9883	8-Input Priority Encoder

### DTL—DIODE TRANSISTOR LOGIC

#### 9930 Series

9930	Dual 4-Input Extendable NAND Gate
9932	Quad 2-Input Extendable NAND Buffer Gate
9933	Extender
9935	Extendable Hex Inverter
9936	Hex Inverter
9937	Hex Inverter
9941	Monostable Multivibrator
9944	Quad 2-Input Extendable NAND Buffer Gate (Open Collector)
9945	RS Flip-Flop
9946	Quad 2-Input NAND Gate
9948	RS Flip-Flop
9949	Quad 2-Input NAND Gate
9950	ac Coupled RS Flip-Flop
9951	Monostable Multivibrator
9961	Dual 4-Input Extendable NAND Gate
9962	Triple 3-Input NAND Gate
9963	Triple 3-Input NAND Gate
9135	Hex Inverter (Open Collector)
9157	Quad 2-Input Buffered NAND Gate
9158	Quad 2-Input Power NAND Gate
9093	Dual JK Flip-Flop
9094	Dual JK Flip-Flop
9097	Dual JK Flip-Flop
9099	Dual JK Flip-Flop
9109	High Voltage Hex Inverter
9110	High Voltage Hex Inverter
9111	RS Flip-Flop
9112	High Voltage Hex Inverter

#### 1800 Series

1800	Dual 5-Input NAND Gate
1801	Dual 5-Input NAND Gate
1802	Single 8-Input NAND Gate
1803	Single 8-Input NAND Gate
1804	Single 10-Input NAND Gate
1805	Single 10-Input NAND Gate
1806	Quad 2-Input AND Gate
1807	Quad 2-Input AND Gate
1808	Quad 2-Input OR Gate
1809	Quad 2-Input OR Gate
1810	Quad 2-Input NOR Gate
1811	Quad 2-Input NOR Gate
1812	Quad 2-Input Exclusive OR Gate
1813	Quad Latch
1814	Quad Latch

## ECL — EMITTER COUPLED LOGIC

### 9500 Series

95H00	4-Bit Universal Register
9502	Dual 4-Input OR/NOR Gate (2.4 ns)
95H02	High Speed 9502 (1.6 ns)
9503	Triple 2-Input OR/NOR Gate (2.4 ns)
95H03	High Speed 9503 (1.6 ns)
9504	Quad 2-Input NOR Gate (2.4 ns)
95H04	High Speed 9504 (1.6 ns)
9505	Quad OR/AND Gate
9507	Quad AND/NAND Gate
95H10	Synchronous Decade Counter
95H16	Synchronous Binary Counter
95H22	High Input Z 95H02
95L22	Low Power 9502 (20 mW, 2 ns)
95H23	High Input Z 95H03
95L23	Low Power 9503 (20 mW, 2 ns)
95H24	High Input Z 95H04
95L24	Low Power 9504 (20 mW, 2 ns)
9528	160 MHz "Dual D" Flip-Flop
95H28	220 MHz 9528
95H29	210 MHz JK Flip-Flop
9534	Quad Latch
9538	2 Line/8 Line Decoder
*95H39	8-Bit Multiport Memory
95H41	4-Bit ALU
*95H42	Lookahead Unit for 95H41
95H55	5-Bit Comparator
9578	Quad Exclusive-OR Gate/4-Bit Comparator
9579	Quad 2-Input Multiplexer
9580	Triple 2-Input Multiplexer
9581	8-Input Multiplexer
9582	Multifunction Receiver/Schmitt Trigger
95H84	2-Bit Adder/Subtractor
95H90	250 MHz Prescaler (divide by 10/11)
9595	ECL — TTL Converter
95400	64-Bit RAM — 16X4
95401	16-Bit RAM — 16X1
95410	256-Bit RAM — 256X1

### 95100 Series

*95101	Dual 2-Wide OR-AND/NAND Gate
95102	Dual OR/NOR Gate
95103	Triple OR/NOR Gate
95104	Quad OR/NOR Gate
*95105	4-Wide OR-AND/NAND Gate
*95106	Dual 3-Input, 3-Output OR Gate
*95108	Quad 1-Input OR/NOR Gate
*95109	Dual 3-Input, 3-Output NOR Gate
95110	Synchronous Decade Counter
95116	Synchronous Hexadecimal Counter
95128	Dual D Flip-Flop
95129	JK Flip-Flop
*95134	Quad Latch
*95138	1-of-8 Decoder
95141	4-Bit ALU/Function Generator
*95178	Quad Exclusive OR
*95179	Quad 2-Input Multiplexer
*95180	Triple 2-Input Multiplexer
*95196	Quad ECL—TTL Level Converter
*95197	Quad TTL—ECL Level Converter

## RTL — RESISTOR TRANSISTOR LOGIC

### 9900 Series

9900	Buffer
9901	Counter Adapter
9902	Flip-Flop
9903	3-Input NOR Gate
9904	Half Adder
9905	Half Shift Register
9906	Half Shift Register
9907	4-Input Gate
9908	Adder
9909	Buffer
9910	Dual Gate
9911	Dual Gate W/Inverter
9912	Half Adder
9913	Type D F/F
9914	Dual 2-Input NOR Gate
9915	Dual 3-Input NOR Gate
9921	Expander
9923	JK Flip-Flop
9926	JK Flip-Flop
9927	Quad Inverter
9974	JK Flip-Flop

### μL (RTL) — COUNTING MICROLOGIC

9958	Decade Counter
9959	4-Bit Latch
9960	Decoder/Driver
9989	Binary Counter

## TTL APPLICATIONS NOTE INDEX

The following Applications notes provide further information on many of the devices described in this catalog. New Application notes are prepared often. Check Fairchild Application Index, published quarterly, for the most up to date listing.

APP-161	9300 Shift Register
163	9304 Dual Adder
167	9308 Dual 4-Bit Latch
168	93434 Read Only Memory
170	9311 1-of-16 Decoder
181	9309 and 9312 Multiplexers
182	9328 Dual 8-Bit Shift Register
184	9310/16 Counters
202	Philosophy and Design of MSI
205	Thermal Evaluation of Integrated Circuits
212	Digital Display Systems
219	93400 TTL Random Access Memories for High Speed Applications
220	9334 8-Bit Addressable Latch
294	9338 8-Bit Multiple Port Register
295	9321 Dual 1-of-4 Decoder/Demultiplexer
296	9322 Quad 2-Input Multiplexer
303	9305 Variable Modulo Counter
304	9360/66 Up/Down Counters
305	9348 12-Input Parity Checker/Generator

\*To be announced.