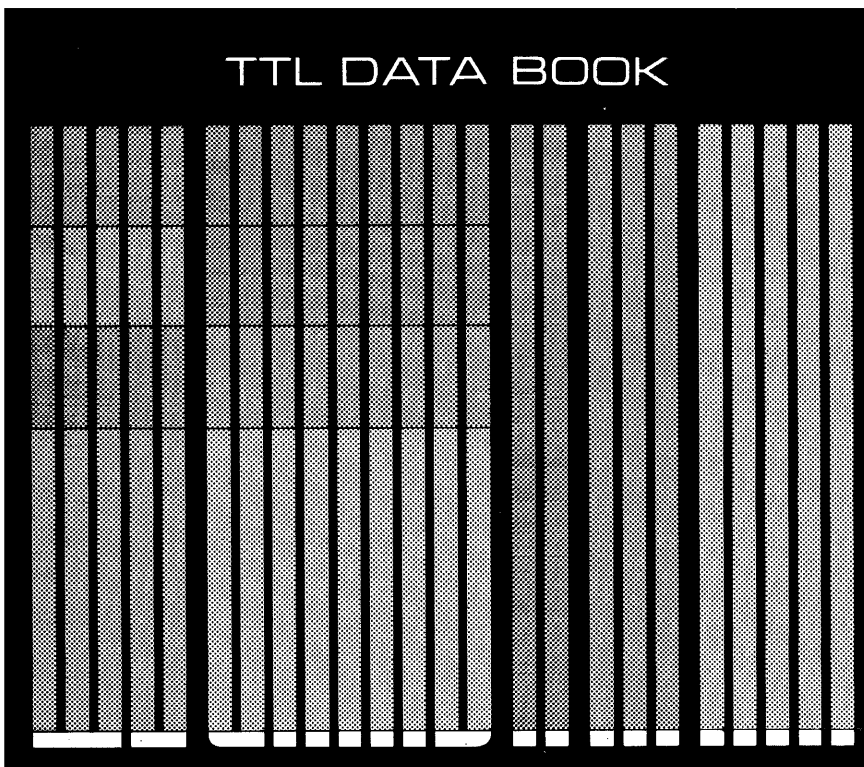


TTL DATA BOOK



MADE IN
FAIRCHILD

**Fairchild
Semiconductor
TTL Data Book
Contents And
Section Selector**

If you know the correct
5400, 7400, 9300 or 9600
device type number, find
the correct page in the
Numerical Index.

General and Order Information

1

Numerical Index

2

Selector Guide and Functional Index

3

If you are trying to choose
the best device for your
application, consult the
Selector guides.

TTL Loading Rules

4

SSI
9000, 9H(54H/74H), 9L, 9N(54/74)
and 9S(54S/74S) Series Data Sheets

5

SSI
Switching and dc Test Circuits

6

If you need the package
dimensions for a specific
device, see Packaging
Information.

SSI
Monostable Multivibrator and Interface
Circuits 9600 Series Data Sheets

7

MSI
9300, 93L, 93S and 54/74
Series Data Sheets

8

Memory - 93400 Data Sheets

9

If you need the exact, or
nearest Fairchild
equivalent to another
manufacturer's device,
consult the Cross
Reference Guide.

Packaging Information

10

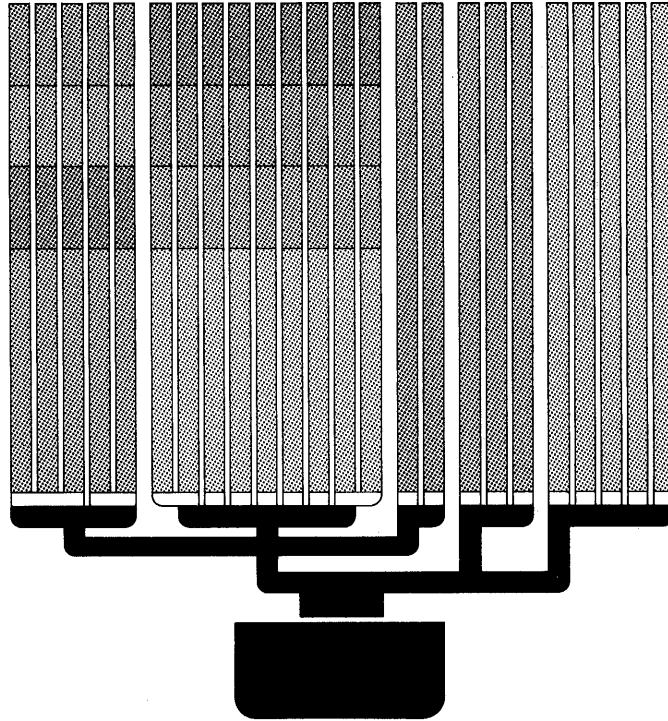
Industry Cross Reference Guide

11

Other Fairchild Digital Families
and Application Notes

12

The Fairchild Semiconductor TTL Data Book



The TTL Family

Fairchild's TTL Family is the most complete line of TTL products available today. There are over 250 circuit functions with more than 100 MSI devices from which to choose. The family consists of logic, memory and interface functions, and is a unique blend of Fairchild proprietary circuits and a large number of second source devices which have achieved wide market acceptance.

Fairchild's family of functions has been designed to provide the system designer with a complete line of standard off-the-shelf functional building blocks that can be interfaced directly with each other in the same system to provide the optimum Speed/Power combination.

9000	Medium Speed SSI
9H00	High Speed SSI
9L00	Low Power SSI
9N00	Standard SSI
9S00	Schottky SSI
9300	Standard MSI
93L00	Low Power MSI
93S00	Schottky MSI
9600	Monostable SSI
93400	Memory Elements

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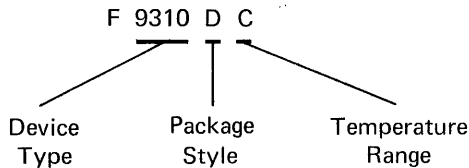
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ORDER INFORMATION

A simplified ordering procedure for Fairchild digital integrated circuits is introduced with the publication of this catalog. Three basic units of information are contained in the new order code:



Device Type

Four to seven alpha numeric characters define the device functional and electrical characteristics, as specified in the data sheets.

Package Style

One letter represents the basic package style.

- D = Dual In-Line Ceramic (Hermetic)
- E = Plastic Can
- F = Flat Package (Hermetic)
- H = Metal Can
- P = Dual In-Line Plastic

Different outlines exist within each package style to accommodate the various die sizes and numbers of leads. Specific dimensions for each package can be found in the "Packaging Information" section.

Temperature Range

Two Basic temperature grades are in common use:

- C = Commercial-Industrial, 0°C to +70°C (or 75°C)
- M = Military, -55°C to +125°C

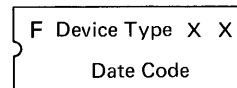
Exact values and conditions are indicated on the data sheets.

Examples

- (a) 93L28FM
This number code indicates a 93L28 register in a flat package with military temperature rating capability.
- (b) 9317BDC
This number code indicates a 9317 decoder/driver with B voltage option in a ceramic dual in-line package with commercial temperature rating.

Device Identification/Marking

All Fairchild standard catalog digital circuits will be marked as follows:



When more than one number is in common use for a device, slash marking with both numbers may be used. Example: 74H04/9H04.

Mil Spec 38510 Processing

Additional processing to Fairchild Unique 38510 specifications is indicated by noting the appropriate requirements after the standard order code.

Detailed ordering procedures are provided in the OEM price list.

Old Order Codes

Devices may continue to be purchased against old order codes (Example: U7B931059X). However, all products will be marked with new order codes unless otherwise specified.

