

The
Interface
Circuits
Data Book
for
Design Engineers

First Edition

The Interface Circuits Data Book

for
Design Engineers

First Edition

第一版



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*Future products, to be announced

INTERFACE CIRCUITS INTERCHANGEABILITY GUIDE (MANUFACTURERS ARRANGED ALPHABETICALLY)

Direct replacements were based on similarity of electrical and mechanical characteristics as shown in currently published data. Interchangeability in particular applications is not guaranteed. Before using a device as a substitute, the user should compare the specifications of the substitute device with the specifications of the original.

Texas Instruments makes no warranty as to the information furnished and buyer assumes all risk in the use thereof. No liability is assumed for damages resulting from the use of the information contained in this list.

ADVANCED MICRO DEVICES

EXAMPLE OF NOMENCLATURE

AM
Prefix

75325
Device Type

N

Package Type
N = Plastic DIP (second source designation for TI Plastic DIP)
P = Plastic DIP
J = Ceramic DIP (second source designation for TI Ceramic DIP)
D = Ceramic DIP

AMD	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
AM0028C		SN75369
AM1488	SN75188	
AM1489	SN75189	
AM1489A	SN75189A	
AM26S10C	AM26S10C	
AM26S10M	AM26S10M	
AM26S11C	AM26S11C	
AM26S11M	AM26S11M	
AM5520	SN5520	
AM5521	SN5520	
AM5524	SN5524	
AM5525	SN5524	
AM7520	SN7520	
AM7521	SN7520	
AM7524	SN7524	
AM7525	SN7524	
AM7820A	SN55182	
AM7830	SN55183	
AM7831	DS7831	
AM7832	DS7832	
AM8820A	SN75182	
AM8830	SN75183	
AM8831	DS8831	
AM8832	DS8832	
AM8T26A		SN75136

AMD	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
AM9614C	SN75114	
AM9614M	SN55114	
AM9615C	SN75115	
AM9615M	SN55115	
AM55107B	SN55107B	
AM55108B	SN55108B	
AM55109	SN55109A	
AM55110	SN55110A	
AM55234	SN55234	
AM55235	SN55234	
AM55238	SN55238	
AM55239	SN55238	
AM55325	SN55325	
AM75107B	SN75107B	
AM75108B	SN75108B	
AM75109	SN75109A	
AM75110	SN75110A	
AM75207	SN75207	
AM75208	SN75208	
AM75234	SN75234	
AM75235	SN75234	
AM75238	SN75238	
*AM75239	SN75238	
AM75325	SN75325	

FAIRCHILD

EXAMPLE OF NOMENCLATURE

75450B
Device Type

D
Package Type
D = Ceramic DIP
P = Plastic DIP
R = Ceramic Mini DIP
T = Plastic Mini DIP
H = Metal Can
F = Flat Package

C
Temperature Range
C = Commercial
0°C to 70°C or 75°C
M = Military
-55°C to 125°C

FAIRCHILD	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT	FAIRCHILD	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
μA8T13M	SN55121		9627C		SN75152
μA8T13C	SN75121		9634C		SN75159
μA8T14M	SN55122		9638C	μA9638C*	
μA8T14C	SN75122		9638M	μA9638M*	
μA8T23C	SN75123		9637C	μA9637C*	SN75157*
μA8T24C	SN75124		9637M	μA9637M*	SN55157*
μA1488C	SN75188		9638C	μA9638C*	SN75158
μA1489C	SN75189		9638M	μA9638M*	SN55158
μA1489AC	SN75189A		9640C	AM26S10C	
5524M	SN5524		9640M	AM26S10M	
5525M	SN5524		9641C	AM26S11C	
5528M	SN5528		9641M	AM26S11M	
5529M	SN5528		9643		{ SN75322 SN75363 SN75361A
5534M		SN55232	9644C		
5535M		SN55232	9664C	SN75492	
5538M		SN55238	9665AC	SN75466	
5539M		SN55238	9665C	ULN2001A	
7524C	SN7524		9666AC	SN75467	
7525C	SN7524		9666C	ULN2002A	
7528C	SN7528		9667AC	SN75468	
7529C	SN7528		9667C	ULN2003A	
7534C		SN75232	9668AC	SN75469	
7535C		SN75232	9668C	ULN2004A	
7538C		SN75238	55107AM	SN55107A	
7539C		SN75238	55107BM	SN55107B	
9612C		SN75158	55108AM	SN55108A	
9614M	SN55114		55108BM	SN55108B	
9614C	SN75114		55109M	SN55109A	
9615M	SN55115		55110M	SN55110A	
9615C	SN75115		55121M	SN55121	
9616C		{ SN75188 SN75150 SN75152 SN75154 SN75189 SN75189A SN75136	55122M	SN55122	
9617C			55224M		SN55234
			55225M		SN55234
9626C			55232M	SN55232	
			55233M	SN55232	

*Future product

FAIRCHILD	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
55234M	SN55234	
55235M	SN55234	
55236M	SN55238	
55235M	SN55238	
55325M	SN55325	
55326M	SN55326	
55327M	SN55327	
55450AM	SN55450B	
55450BM	SN55450B	
55451AM	SN55451B	
55451BM	SN55451B	
55452AM	SN55452B	
55452BM	SN55452B	
55453AM	SN55453B	
55453BM	SN55453B	
55454AM	SN55454B	
55454BM	SN55454B	
55460M	SN55460	
55461M	SN55461	
55462M	SN55462	
55463M	SN55463	
55464M	SN55464	
55470M	SN55470	
55471M	SN55471	
55472M	SN55472	
55473M	SN55473	
55474M	SN55474	
75107AC	SN75107A	
75107BC	SN75107B	
75108AC	SN75108A	
75108BC	SN75108B	
75109C	SN75109A	
75110C	SN75110A	
75112C	SN75112	
75121C	SN75121	
75122C	SN75122	
75123C	SN75123	
75124C	SN75124	
75150C	SN75150	
75154C	SN75154	
75207C	SN75207	

FAIRCHILD	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
75208C	SN75208	
75224C		SN75234
75225C		SN75234
75232C	SN75232	
75233C	SN75232	
75234C	SN75234	
75235C	SN75234	
75238C	SN75238	
75239C	SN75238	
75325C	SN75325	
75326C	SN75326	
75327C	SN75327	
75430C	SN75430	
75431C	SN75431	
75432C	SN75432	
75433C	SN75433	
75434C	SN75434	
75450AC	SN75450B	
75450BC	SN75450B	
75451AC	SN75451B	
75451BC	SN75451B	
75452AC	SN75452B	
75452BC	SN75452B	
75453AC	SN75453B	
75453BC	SN75453B	
75454AC	SN75454B	
75454BC	SN75454B	
75460C	SN75460	
75461C	SN75461	
75462C	SN75462	
75463C	SN75463	
75464C	SN75464	
75470C	SN75470	
75471C	SN75471	
75472C	SN75472	
75473C	SN75473	
75474C	SN75474	
75491C	SN75491	
75491AC	SN75491A	
75492C	SN75492	
75492AC	SN75492A	

ITT

EXAMPLE OF NOMENCLATURE

ITT
Prefix

75450
Device Type

-5
Temperature Range
-1 = -55°C to 125°C
-5 = 0°C to 70°C

D
Package
D = Ceramic DIP
N = Plastic DIP

ITT	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
ITT491	SN75491	
ITT492	SN75492	
ITT493	SN75493	
ITT494	SN75494	
ITT1488	SN75188	
ITT1489	SN75189	
ITT1489A	SN75189A	
ITT5520	SN5520	
ITT5521	SN5520	
ITT5522	SN5522	
ITT5523	SN5522	
ITT5524	SN5524	
ITT5525	SN5524	
ITT5528	SN5528	
ITT5529	SN5528	
ITT5534		SN55232
ITT5535		SN55232
ITT7520	SN7520	
ITT7521	SN7520	
ITT7522	SN7522	
ITT7523	SN7522	
ITT7524	SN7524	
ITT7525	SN7524	
ITT7528	SN7528	
ITT7529	SN7528	
ITT7534		SN75232
ITT7535		SN75232
ITT9614	SN75114	
ITT9615	SN75115	
ITT55107A	SN55107A	
ITT55107B	SN55107B	
ITT55108A	SN55108A	
ITT55108B	SN55108B	
ITT55109	SN55109A	
ITT55110	SN55110A	
ITT55138	SN55138	
ITT55234	SN55234	

ITT	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
ITT55235	SN55234	
ITT55324	SN55324	
ITT56325	SN55325	
ITT55450	SN55450B	
ITT55451	SN55451B	
ITT55452	SN55452B	
ITT55453	SN55453B	
ITT55454	SN55454B	
ITT55460	SN55460	
ITT55461	SN55461	
ITT55462	SN55462	
ITT55463	SN55463	
ITT55464	SN55464	
ITT75107A	SN75107A	
ITT75107B	SN75107B	
ITT75108A	SN75108A	
ITT75108B	SN75108B	
ITT75109	SN75109A	
ITT75110	SN75110A	
ITT75138	SN75138	
ITT75207	SN75207	
ITT75208	SN75208	
ITT75234	SN75234	
ITT75235	SN75234	
ITT75322	SN75322	
ITT75324	SN75324	
ITT75325	SN75325	
ITT75450	SN75450B	
ITT75451	SN75451B	
ITT75452	SN75452B	
ITT75453	SN75453B	
ITT75454	SN75454B	
ITT75460	SN75460	
ITT75461	SN75461	
ITT75462	SN75462	
ITT75463	SN75463	
ITT75464	SN75464	

MOTOROLA

EXAMPLE OF NOMENCLATURE

MC

75325

P

Prefix

Device Type

Package

P = Plastic DIP
L = Ceramic DIP
G = Metal Can
F = Flat Package

MOTOROLA	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
MMH0026C		SN75369
MC8T13	SN75121	
MC8T14	SN75122	
MC8T23	SN75123	
MC8T24	SN75124	
MC8T26		SN75136
MC1411	ULN2001A	
MC1412	ULN2002A	
MC1413	ULN2003A	
MC1416	ULN2004A	
MC1488	SN75188	
MC1489	SN75189	
MC1489A	SN75189A	
MC3443		SN75138
MC3446	MC3446	
MC3463		SN75110A
MC5522	SN5522	
MC5523	SN5522	
MC5524	SN5524	
MC5525	SN5524	
MC5528	SN5528	
MC5529	SN5528	
MC5534		SN55232
MC5535		SN55232
MC5538		SN55238
MC5539		SN55238
MC7522	SN7522	
MC7523	SN7522	
MC7524	SN7524	
MC7525	SN7524	

MOTOROLA	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
MC7528	SN7528	
MC7529	SN7528	
MC7534		SN75232
MC7535		SN75232
MC7538		SN75238
MC7539		SN75238
MC55107	SN55107A	
MC55108	SN55108A	
MC55325	SN55325	
MC75107	SN75107A	
MC75108	SN75108A	
MC75109	SN75109A	
MC75110	SN75110A	
MC75140	SN75140	
MC75325	SN75325	
MC75358	SN75368	
MC75365	SN75365	
MC75368	SN75368	
MC75450	SN75450B	
MC75451	SN75451B	
MC75452	SN75452B	
MC75453	SN75453B	
MC75454	SN75454B	
MC75480	SN75480	
MC75481	SN75481	
MC75482	SN75482	
MC75483	SN75483	
MC75484	SN75484	
MC75491	SN75491	
MC75492	SN75492	

NATIONAL

EXAMPLE OF NOMENCLATURE

DS
Prefix

75325
Device Type

N
Package
N = Plastic DIP
J = Ceramic DIP
W = Flat Package
H = Metal Can

NATIONAL	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
DS0026C		SN75369
DS1488	SN75188	
DS1489	SN75189	
DS1489A	SN75189A	
DS1611		SN55471
DS1612		SN55472
DS1613		SN55473
DS1614		SN55474
DS3611		SN75471
DS3612		SN75472
DS3613		SN75473
DS3614		SN75474
DS3629		SN75324
DS5520	SN5520	
DS5520A		SN5520
DS5521	SN5520	
DS5522	SN5522	
DS5522A		SN5522
DS5523	SN5522	
DS5524	SN5524	
DS5524A		SN5524
DS5525	SN5524	
DS5528	SN5528	
DS5528A		SN5528
DS5529	SN5528	
DS5534		SN55232
DS5534A		SN55232
DS5535		SN55232
DS5538		SN55238
DS5538A		SN55238
DS5539		SN55238
DS7520	SN7520	
DS7520A		SN7520
DS7521	SN7520	
DS7522	SN7522	
DS7522A		SN7522
DS7523	SN7522	
DS7524	SN7524	

NATIONAL	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
DS7524A		SN7524
DS7525	SN7524	
DS7528	SN7528	
DS7528A		SN7528
DS7529	SN7528	
DS7534		SN75232
DS7534A		SN75232
DS7535		SN75232
DS7538		SN75238
DS7538A		SN75238
DS7539		SN75238
DS7800	SN55180	
DS7820	SN55182	
DS7820A	SN55182	
DS7830	SN55183	
DS7831	DS7831	
DS7832	DS7832	
DS8800	SN75180	
DS8820	SN75182	
DS8820A	SN75182	
DS8830	SN75183	
DS8831	DS8831	
DS8832	DS8832	
DS8880	SN75480	
DS55107	SN55107B	
DS55108	SN55108B	
DS55109	SN55109A	
DS55110	SN55110A	
DS55121	SN55121	
DS55122	SN55122	
DS55325	SN55325	
DS55460	SN55450B	
DS55451	SN55451B	
DS55452	SN55452B	
DS55453	SN55453B	
DS55454	SN55454B	
DS55460	SN55460	
DS55461	SN55461	

NATIONAL	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
DS55462	SN55462	
DS55463	SN55463	
DS55464	SN55464	
DS75107	SN75107B	
DS75108	SN75108B	
DS75109	SN75109A	
DS75110	SN75110A	
DS75121	SN75121	
DS75122	SN75122	
DS75123	SN75123	
DS75124	SN75124	
DS75150	SN75150	
DS75154	SN75154	
DS75207	SN75207B	
DS75208	SN75208B	
DS75322	SN75322	
DS75324	SN75324	
DS75325	SN75325	
DS75361	SN75361A	

NATIONAL	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
DS75362		SN75365
DS75364	SN75364	
DS75365	SN75365	
DS75450	SN75450B	
DS75451	SN75451B	
DS75452	SN75452B	
DS75453	SN75453B	
DS75454	SN75454B	
DS75460	SN75460	
DS75461	SN75461	
DS75462	SN75462	
DS75463	SN75463	
DS75464	SN75464	
DS75491	SN75491	
DS75492	SN75492	
DS75493	SN75493	
DS75494	SN75494	
DS78LS20		SN55182
DS88LS20		SN75182

SIGNETICS

EXAMPLE OF NOMENCLATURE

75454B

Device Type

V

Package
A = 14 pin Plastic DIP
FH = 14 pin Ceramic DIP
V = 8 pin Plastic DIP
T = 8 pin Metal Can
B = 16 pin Plastic DIP
FJ = 16 pin Ceramic DIP

SIGNETICS	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
N8T13	SN75121	
N8T14	SN75122	
N8T15		SN75150
N8T16		SN75152
N8T23	SN75123	
N8T24	SN75124	
N8T26		SN75136
N8T26A		SN75136
S8T13	SN55121	
S8T14	SN55122	
DM7820	SN55182	
DM7830	SN55183	
DM8820	SN75182	
DM8830	SN75183	

SIGNETICS	TI DIRECT REPLACEMENT	TI CLOSEST REPLACEMENT
DM8880	SN75480	
MC1488	SN75188	
MC1489	SN75189	
MC1489A	SN75189A	
3207A		SN75365
3207A-1		SN75365
7520	SN7520	
7521	SN7520	
7522	SN7522	
7523	SN7522	
7524	SN7524	
7525	SN7524	
55325	SN55325	
55450B	SN55450B	