

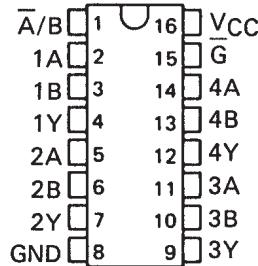
SN54LS257B, SN54LS258B, SN54S257, SN54S258
 SN74LS257B, SN74LS258B, SN74S257, SN74S258
QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

SDLS148 – OCTOBER 1976 – REVISED MARCH 1988

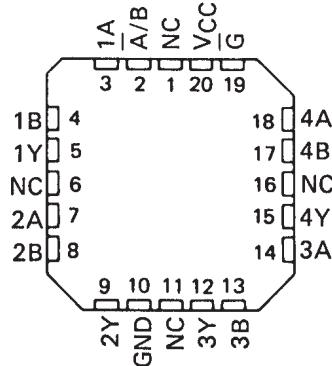
- Three-State Outputs Interface Directly with System Bus
- 'LS257B and 'LS258B Offer Three Times the Sink-Current Capability of the Original 'LS257 and 'LS258
- Same Pin Assignments as SN54LS157, SN74LS157, SN54S157, SN74S157, and SN54LS158, SN74LS158, SN54S158, SN74S158
- Provides Bus Interface from Multiple Sources in High-Performance Systems

SN54LS257B, SN54S257,
 SN54LS258B, SN54S258 . . . J OR W PACKAGE
 SN74LS257B, SN74S257,
 SN74LS258B, SN74S258 . . . D OR N PACKAGE

(TOP VIEW)



SN54LS257B, SN54S257,
 SN54LS258B, SN54S258 . . . FK PACKAGE
 (TOP VIEW)



NC-No internal connection.

description

These devices are designed to multiplex signals from four-bit data sources to four-output data lines in bus-organized systems. The 3-state outputs will not load the data lines when the output control pin (G) is at a high-logic level.

Series 54LS and 54S are characterized for operation over the full military temperature range of -55°C to 125°C; Series 74LS and 74S are characterized for operation from 0°C to 70°C.

FUNCTION TABLE

OUTPUT CONTROL	SELECT	INPUTS		OUTPUT Y	
		A	B	'LS257B 'S257	'LS258B 'S258
H	X	X	X	Z	Z
L	L	L	X	L	H
L	L	H	X	H	L
L	H	X	L	L	H
L	H	X	H	H	L

H = high level, L = low level, X = irrelevant,
 Z = high impedance (off)

SN54LS257B, SN54LS258B, SN54S257, SN54S258

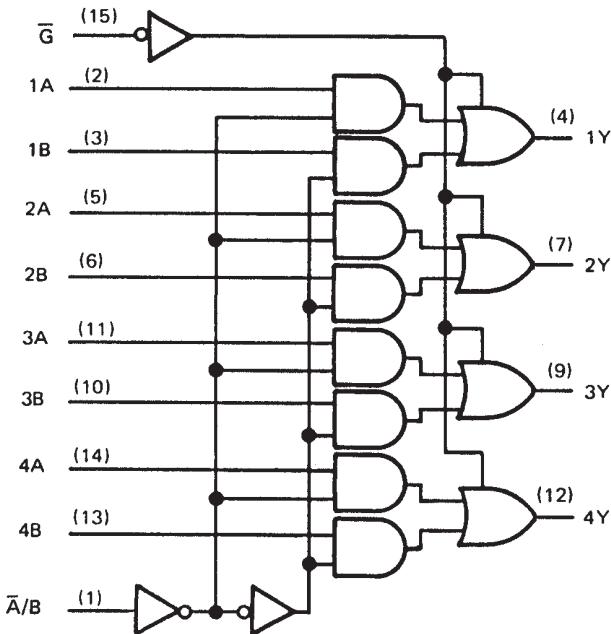
SN74LS257B, SN74LS258B, SN74S257, SN74S258

QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

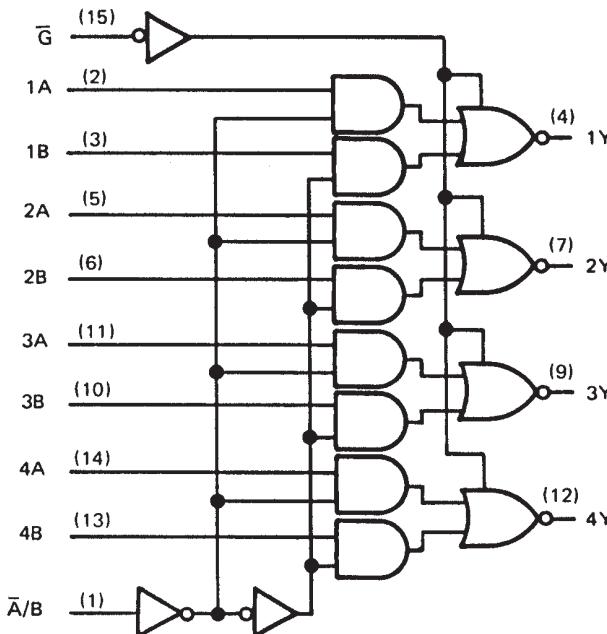
SDLS148 – OCTOBER 1976 – REVISED MARCH 1988

logic diagrams (positive logic)

'LS257B, 'S257

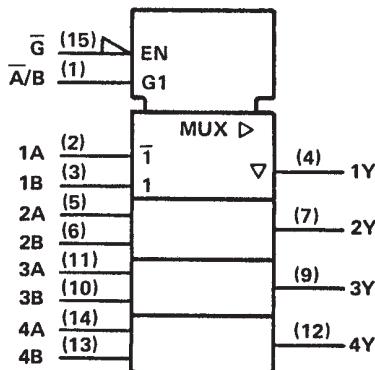


'LS258B, 'S258

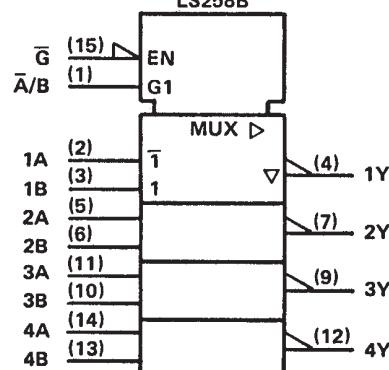


logic symbols†

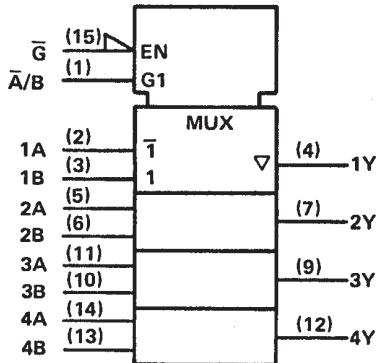
'LS257B



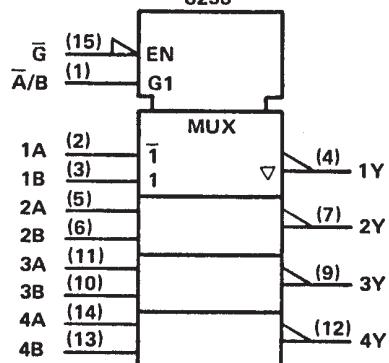
'LS258B



'S257



'S258

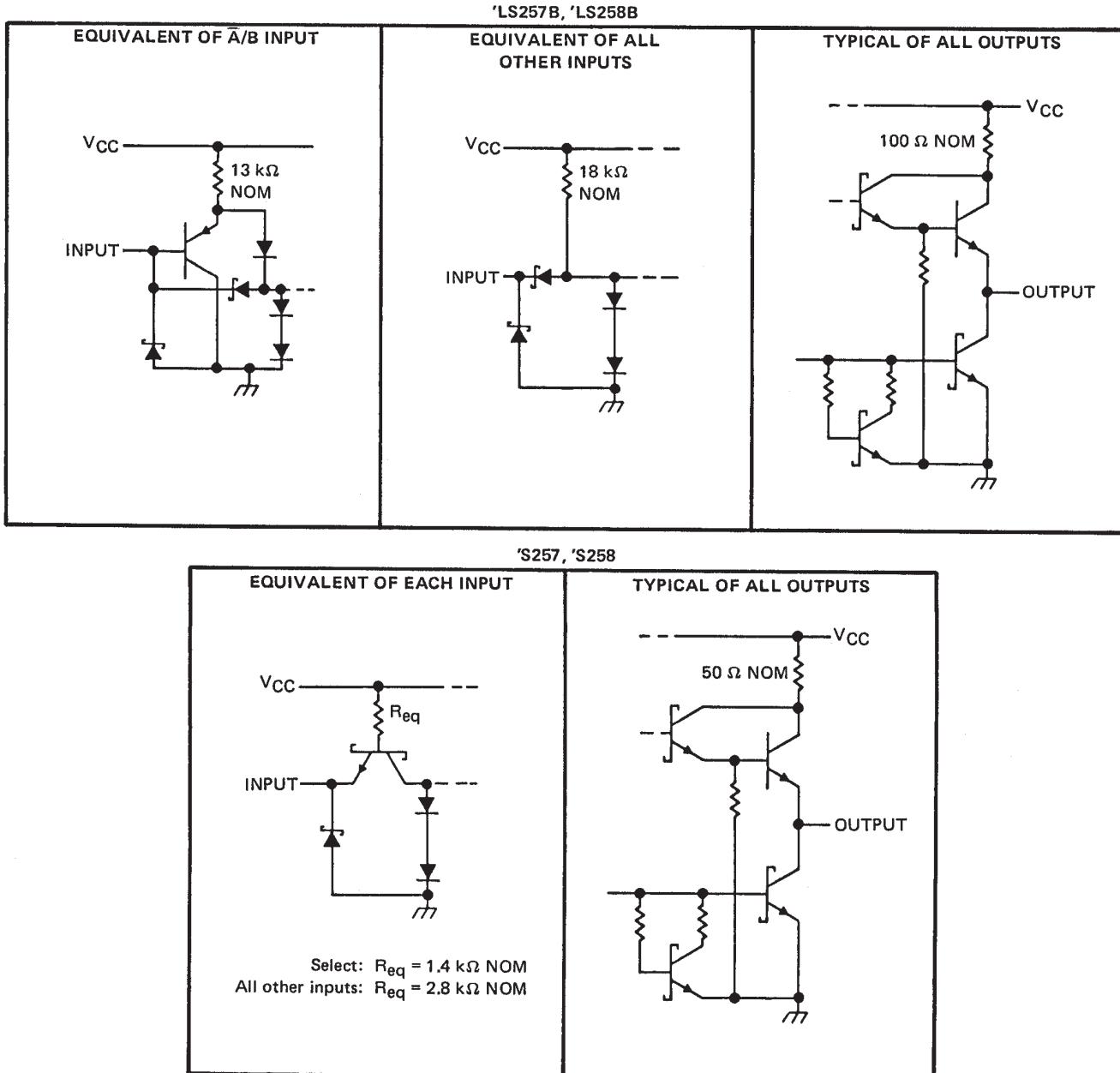


†These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.
Pin numbers shown are for D, J, N, and W packages.

**SN54LS257B, SN54LS258B, SN54S257, SN54S258
SN74LS257B, SN74LS258B, SN74S257, SN74S258
QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS**

SDLS148 – OCTOBER 1976 – REVISED MARCH 1988

schematics of inputs and outputs



absolute maximum ratings over operating free-air temperature range (unless otherwise noted)

Supply voltage, V_{CC} (see Note 1)	7 V
Input voltage: 'LS257B, 'LS258B Circuits	7 V
'S257, 'S258 Circuits	5.5 V
Off-state output voltage	5.5 V
Operating free-air temperature range: SN54LS', SN54S' Circuits	-55°C to 125°C
SN74LS', SN74S' Circuits	0°C to 70°C
Storage temperature range	-65°C to 150°C

NOTE 1: Voltage values are with respect to network ground terminal.

**SN54LS257B, SN54LS258B, SN54S257, SN54S258
SN74LS257B, SN74LS258B, SN74S257, SN74S258
QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MUXES**

SDLS148 – OCTOBER 1976 – REVISED MARCH 1988

recommended operating conditions

	SN54LS'			SN74LS'			UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	
V _{CC} Supply voltage	4.5	5	5.5	4.75	5	5.25	V
V _{IH} High-level input voltage	2			2			V
V _{IL} Low-level input voltage			0.7			0.8	V
I _{OH} High-level output current			-1			-2.6	mA
I _{OL} Low-level output current			12			24	mA
T _A Operating free-air temperature	-55	125	0	0	70	°C	

electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CONDITIONS [†]	SN54LS'			SN74LS'			UNIT
		MIN	TYP [‡]	MAX	MIN	TYP [‡]	MAX	
V _{IK}	V _{CC} = MIN, I _I = -18 mA			-1.5			-1.5	V
V _{OH}	V _{CC} = MIN, V _{IH} = 2 V, V _{IL} = MAX, I _{OH} = MAX	2.4	3.4		2.4	3.1		V
V _{OL}	V _{CC} = MIN, V _{IH} = 2 V, I _{OL} = 12 mA V _{IL} = MAX, I _{OL} = 24 mA	0.25	0.4		0.25	0.4		V
I _{OZH}	V _{CC} = MAX, V _{IH} = 2 V, V _O = 2.7 V			20			20	μA
I _{OZL}	V _{CC} = MAX, V _{IH} = 2 V, V _O = 0.4 V			-20			-20	μA
I _I	V _{CC} = MAX, V _I = 7 V			0.1			0.1	mA
I _{IH}	V _{CC} = MAX, V _I = 2.7 V			20			20	μA
I _{IL}	V _{CC} = MAX, V _I = 0.4 V			-0.4			-0.4	mA
I _{OS} [§]	V _{CC} = MAX,	-30	-130	-30	-130	-30	-130	mA
I _{CC}	All outputs high	'LS257B	8	12	8	12		mA
	All outputs low		12	18	12	18		
	All outputs off		13	19	13	19		
	All outputs high	'LS258B	6	9	6	9		
	All outputs low		10	15	10	15		
	All outputs off		11	16	11	16		

[†]For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

[‡]All typical values are at V_{CC} = 5 V, T_A = 25°C.

[§]Not more than one output should be shorted at a time and duration of the short-circuit should not exceed one second.

NOTE 2: I_{CC} is measured with all outputs open and all possible inputs grounded while achieving the stated output conditions.

switching characteristics, V_{CC} = 5 V, T_A = 25°C, R_L = 667 Ω

PARAMETER [¶]	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	'LS257B			'LS258B			UNIT	
				MIN	TYP	MAX	MIN	TYP	MAX		
t _{PLH}	Data	Any	C _L = 45 pF, See Note 3	8	13		7	12		ns	
t _{PHL}				10	15		11	17			
t _{PLH}				16	21		14	21			
t _{PHL}		Any		17	24		19	24			
t _{PZH}				15	30		15	30			
t _{PZL}				19	30		20	30			
t _{PHZ}	Output Control	Any	C _L = 5 pF, See Note 3	18	30		18	30		ns	
t _{PZL}				16	25		16	25			

[¶]t_{PLH} = propagation delay time, low-to-high-level output

t_{PHL} = propagation delay time, high-to-low-level output

t_{PZH} = output enable time to high level

t_{PZL} = output enable time to low level

t_{PHZ} = output disable time from high level

t_{PPL} = output disable time from low level

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

**SN54LS257B, SN54LS258B, SN54S257, SN54S258
SN74LS257B, SN74LS258B, SN74S257, SN74S258
QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MUX**

SDLS148 – OCTOBER 1976 – REVISED MARCH 1988

recommended operating conditions

	SN54S'			SN74S'			UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	
Supply voltage, V_{CC}	4.5	5	5.5	4.75	5	5.25	V
High-level output current, I_{OH}			-2			-6.5	mA
Low-level output current, I_{OL}			20			20	mA
Operating free-air temperature, T_A	-55	125	0	0	70	$^{\circ}C$	

electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CONDITIONS [†]			'S257		'S258		UNIT
				MIN	TYP [‡]	MAX	MIN	
V_{IH} High-level input voltage				2			2	V
V_{IL} Low-level input voltage					0.8		0.8	V
V_{IK} Input clamp voltage	$V_{CC} = \text{MIN}$, $I_I = -18 \text{ mA}$				-1.2		-1.2	V
V_{OH} High-level output voltage	$V_{CC} = \text{MIN}$, $V_{IH} = 2 \text{ V}$, $V_{IL} = 0.8 \text{ V}$, $I_{OH} = -1 \text{ mA}$	SN74S'	2.7			2.7		V
	$V_{CC} = \text{MIN}$, $V_{IH} = 2 \text{ V}$, $V_{IL} = 0.8 \text{ V}$, $I_{OH} = \text{MAX}$		2.4	3.4		2.4	3.4	
		SN74S'	2.4	3.2		2.4	3.2	
V_{OL} Low-level output voltage	$V_{CC} = \text{MIN}$, $V_{IH} = 2 \text{ V}$, $V_{IL} = 0.8 \text{ V}$, $I_{OL} = 20 \text{ mA}$			0.5			0.5	V
I_{OZH} Off-state output current, high-level voltage applied	$V_{CC} = \text{MAX}$, $V_{IH} = 2 \text{ V}$, $V_O = 2.4 \text{ V}$			50			50	μA
I_{OZL} Off-state output current, low-level voltage applied	$V_{CC} = \text{MAX}$, $V_{IH} = 2 \text{ V}$, $V_O = 0.5 \text{ V}$			-50			-50	μA
I_I Input current at maximum input voltage	$V_{CC} = \text{MAX}$, $V_I = 5.5 \text{ V}$			1			1	mA
I_{IH} High-level input current	S input	$V_{CC} = \text{MAX}$, $V_I = 2.7 \text{ V}$		100			100	μA
	Any other			50			50	
I_{IL} Low-level input current	S input	$V_{CC} = \text{MAX}$, $V_I = 0.5 \text{ V}$		-4			-4	mA
	Any other			-2			-2	
I_{OS} Short-circuit output current [§]	$V_{CC} = \text{MAX}$		-40	-100	-40	-100		mA
I_{CC} Supply current	All outputs high	$V_{CC} = \text{MAX}$, See Note 2		44	68		36	56
	All outputs low			60	93		52	81
	All outputs off			64	99		56	87

[†]For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

[‡]All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

[§]Not more than one output should be shorted at a time and duration of the short-circuit should not exceed one second.

NOTE 2: I_{CC} is measured with all outputs open and all possible inputs grounded while achieving the stated output conditions.

switching characteristics, $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$, $R_L = 280 \Omega$

PARAMETER [¶]	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	'S257			'S258			UNIT	
				MIN	TYP	MAX	MIN	TYP	MAX		
t_{PLH}	Data	Any	$C_L = 15 \text{ pF}$, See Note 3	5	7.5		4	6		ns	
t_{PHL}				4.5	6.5		4	6			
t_{PLH}				8.5	15		8	12			
t_{PHL}		Any		8.5	15		7.5	12			
t_{PZH}				13	19.5		13	19.5			
t_{PZL}				14	21		14	21			
t_{PHZ}	Output Control	Any	$C_L = 5 \text{ pF}$, See Note 3	5.5	8.5		5.5	8.5		ns	
t_{PLZ}				9	14		9	14			

[¶] f_{max} = Maximum clock frequency

t_{PLH} = propagation delay time, low-to-high-level output

t_{PHL} = propagation delay time, high-to-low-level output

t_{PZH} = output enable time to high level

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

t_{PZL} ≡ output enable time to low level

t_{PHZ} ≡ output disable time from high level

t_{PLZ} ≡ output disable time from low level

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[APPLICATION NOTES](#) | [USER GUIDES](#) | [MORE LITERATURE](#)

PRODUCT SUPPORT: [TRAINING](#)

SN54S258, Quadruple 2-Line To 1-Line Data Selectors/Multiplexers

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN54S258
Voltage Nodes (V)	5
Vcc range (V)	4.5 to 5.5
Input Level	TTL
Output Level	TTL
Output	3S
From	2
To	1

FEATURES

[▲ Back to Top](#)

- Three-State Outputs Interface Directly with System Bus
- 'LS257B and 'LS258B Offer Three Times the Sink-Current Capability of the Original 'LS257 and 'LS258
- Same Pin Assignments as SN54LS157, SN74LS157, SN54S157, SN74S157, and SN54LS158, SN74LS158, SN54S158, SN74S158
- Provides Bus Interface from Multiple Sources in High-Performance Systems

† Off state (worst case)

DESCRIPTION

[▲ Back to Top](#)

These devices are designed to multiplex signals from four-bit data sources to four-output data lines in bus-organized systems. The 3-state outputs will not load the data lines when the output control pin (G) is at a high-logic level.

Series 54LS and 54S are characterized for operation over the full military temperature range of -55°C to 125°C; Series 74LS and 74S are characterized for operation from 0°C to 70°C.

TECHNICAL DOCUMENTS

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DATASHEET

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APPLICATION NOTES

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- [Designing With Logic \(Rev. C\)](#) (SDYA009C - Updated: 06/01/1997)
- [Evaluation of Nickel/Palladium/Gold-Finished Surface-Mount Integrated Circuits](#) (SZZA026 - Updated: 06/20/2001)

- [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
- [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
- [Understanding and Interpreting Texas Instruments Standard-Logic Products Data Sh \(Rev. A\)](#) (SZZA036A - Updated: 02/27/2003)

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- [Enhanced Plastic Portfolio Brochure](#) (SGZB004, 387 KB - Updated: 08/19/2002)
- [Logic Reference Guide](#) (SCYB004, 1032 KB - Updated: 10/23/2001)
- [MicroStar Junior BGA Design Summary](#) (SCET004, 167 KB - Updated: 07/28/2000)
- [Military Brief](#) (SGYN138, 803 KB - Updated: 10/10/2000)
- [Overview of IEEE Std 91-1984, Explanation of Logic Symbols Training Booklet \(Rev. A\)](#) (SDYZ001A, 138 KB - Updated: 07/01/1996)
- [Palladium Lead Finish User's Manual](#) (SDYV001, 2041 KB - Updated: 11/01/1996)
- [QML Class V Space Products Military Brief \(Rev. A\)](#) (SGZN001A, 257 KB - Updated: 10/07/2002)

USER GUIDES[▲ Back to Top](#)

- [LOGIC Pocket Data Book](#) (SCYD013, 4837 KB - Updated: 12/05/2002)

PRICING/AVAILABILITY/PKG[▲ Back to Top](#)**DEVICE INFORMATION**

Updated Daily

ORDERABLE DEVICE	STATUS	PACKAGE TYPE PINS	TEMP (°C)	DSCC NUMBER	PRODUCT CONTENT	BUDGETARY PRICING QTY SUS	STD PACK QTY
8002301EA	ACTIVE	CDIP (J) 16	-55 TO 125		View Contents	1KU 4.42	1
8002301FA	ACTIVE	CFP (W) 16	-55 TO 125		View Contents	1KU 8.11	1
SN54S258J	ACTIVE	CDIP (J) 16	-55 TO 125		View Contents	1KU 3.79	1
SNJ54S258FK	ACTIVE	LCCC (FK) 20	-55 TO 125		View Contents	1KU 11.20	1
SNJ54S258J	ACTIVE	CDIP (J) 16	-55 TO 125	8002301EA	View Contents	1KU 4.42	1
SNJ54S258W	ACTIVE	CFP (W) 16	-55 TO 125	8002301FA	View Contents	1KU 8.11	1

Table Data Updated on: 4/17/2003

TI INVENTORY STATUS

As Of 09:00 AM GMT, 17 Apr 2003

IN STOCK	IN PROGRESS QTY DATE	LEAD TIME
379*	>10k 20 May	8 WKS
65*	>10k 20 May	8 WKS
536*	>10k 20 May	8 WKS
0*	3536 20 May	8 WKS
	>10k 27 May	
97*	>10k 20 May	8 WKS
48*	>10k 20 May	8 WKS

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PRODUCT SUPPORT: [TRAINING](#)

SN54LS258B, Quadruple 2-Line To 1-Line Data Selectors/Multiplexers

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN54LS258B	SN74LS258B
Voltage Nodes (V)	5	5
Vcc range (V)	4.5 to 5.5	4.75 to 5.25
Input Level	TTL	TTL
Output Level	TTL	TTL
Output Drive (mA)		-2.6/24
Output	3S	3S
From	2	2
To	1	1

FEATURES

[Back to Top](#)

- Three-State Outputs Interface Directly with System Bus
- 'LS257B and 'LS258B Offer Three Times the Sink-Current Capability of the Original 'LS257 and 'LS258
- Same Pin Assignments as SN54LS157, SN74LS157, SN54S157, SN74S157, and SN54LS158, SN74LS158, SN54S158, SN74S158
- Provides Bus Interface from Multiple Sources in High-Performance Systems

† Off state (worst case)

DESCRIPTION

[Back to Top](#)

These devices are designed to multiplex signals from four-bit data sources to four-output data lines in bus-organized systems. The 3-state outputs will not load the data lines when the output control pin (G) is at a high-logic level.

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TECHNICAL DOCUMENTS

[Back to Top](#)

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DATASHEET

[Back to Top](#)

Full datasheet in Acrobat PDF: [sn54ls258b.pdf](#) (248 KB) (Updated: 03/01/1988)

APPLICATION NOTES

[Back to Top](#)

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- [Designing with the SN54/74LS123 \(Rev. A\)](#) (SDLA006A - Updated: 03/01/1997)
- [Evaluation of Nickel/Palladium/Gold-Finished Surface-Mount Integrated Circuits](#) (SZZA026 - Updated: 06/20/2001)
- [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
- [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
- [TI IBIS File Creation, Validation, and Distribution Processes](#) (SZZA034 - Updated: 08/29/2002)
- [Understanding and Interpreting Texas Instruments Standard-Logic Products Data Sh \(Rev. A\)](#) (SZZA036A - Updated: 02/27/2003)

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- [Overview of IEEE Std 91-1984, Explanation of Logic Symbols Training Booklet \(Rev. A\)](#) (SDYZ001A, 138 KB - Updated: 07/01/1996)
- [Palladium Lead Finish User's Manual](#) (SDYV001, 2041 KB - Updated: 11/01/1996)
- [QML Class V Space Products Military Brief \(Rev. A\)](#) (SGZN001A, 257 KB - Updated: 10/07/2002)

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PRICING/AVAILABILITY/PKG[▲ Back to Top](#)**DEVICE INFORMATION**

Updated Daily

ORDERABLE DEVICE	STATUS	PACKAGE TYPE PINS	TEMP (°C)	DSCC NUMBER	PRODUCT CONTENT	BUDGETARY PRICING QTY \$US	STD PACK QTY
76038012A	ACTIVE	LCCC (FK) 20	-55 TO 125		View Contents	1KU 6.94	1
7603801EA	ACTIVE	CDIP (J) 16	-55 TO 125		View Contents	1KU 2.12	1
7603801FA	ACTIVE	CFP (W) 16	-55 TO 125		View Contents	1KU 6.86	1
SN54LS258BJ	ACTIVE	CDIP (J) 16	-55 TO 125		View Contents	1KU 1.80	1
SNJ54LS258BFK	ACTIVE	LCCC (FK) 20	-55 TO 125	76038012A	View Contents	1KU 6.94	1
SNJ54LS258BJ	ACTIVE	CDIP (J) 16	-55 TO 125	7603801EA	View Contents	1KU 2.12	1
SNJ54LS258BW	ACTIVE	CFP (W) 16	-55 TO 125	7603801FA	View Contents	1KU 6.86	1

TI INVENTORY STATUS
As Of 09:00 AM GMT, 17 Apr 2003

IN STOCK	IN PROGRESS QTY DATE	LEAD TIME
67*	3757 20 May	6 WKS
	>10k 27 May	
0*	>10k 20 May	6 WKS
0*	>10k 20 May	6 WKS
239*	>10k 20 May	6 WKS
0*	3580 20 May	6 WKS
	>10k 27 May	
47*	>10k 20 May	6 WKS
48*	>10k 20 May	6 WKS

REPORTED DISTRIBUTOR INVENTORY
As Of 09:00 AM GMT, 17 Apr 2003

DISTRIBUTOR COMPANY REGION	IN STOCK	PURCHASE
None Reported View Distributors		
Avnet Americas	9	BUY NOW
None Reported View Distributors		
EBV Electronik Europe	100	BUY NOW
None Reported View Distributors		
Avnet-SILICA Europe	117	BUY NOW
None Reported View Distributors		

