SCLS303D - JANUARY 1996 - REVISED AUGUST 2003

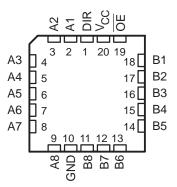
- Wide Operating Voltage Range of 2 V to 6 V
- **High-Current 3-State Outputs Can Drive Up** To 15 LSTTL Loads
- Low Power Consumption, 80-μA Max I_{CC}

SN54HC640...J OR W PACKAGE SN74HC640 . . . DW, N, NS, OR PW PACKAGE (TOP VIEW)

DIR [1	\cup	20] v _{cc}
A1 [2		19] OE
A2 [3		18	B1
A3 [4		17	B2
A4 [5		16] B3
A5 [6		15] B4
A6 [7		14] B5
A7 [8		13] B6
A8 [9		12] B7
GND [10		11] B8

- Typical $t_{pd} = 8 \text{ ns}$
- ±6-mA Output Drive at 5 V
- Low Input Current of 1 µA Max
- **Inverting Logic**

SN54HC640 . . . FK PACKAGE (TOP VIEW)



description/ordering information

These octal bus transceivers are designed for asynchronous two-way communication between data buses. These devices transmit data from the A bus to the B bus or from the B bus to the A bus, depending upon the level at the direction-control (DIR) input. The output-enable (OE) input can be used to disable the device so the buses are effectively isolated.

ORDERING INFORMATION

TA	PACK	AGE [†]	ORDERABLE PART NUMBER	TOP-SIDE MARKING	
	PDIP – N	Tube of 20	SN74HC640N	SN74HC640N	
	0010 PW	Tube of 25	SN74HC640DW	110040	
	SOIC - DW	Reel of 2000	SN74HC640DWR	HC640	
-40°C to 85°C	SOP - NS	Reel of 2000	SN74HC640NSR	HC640	
		Tube of 70	SN74HC640PW		
	TSSOP - PW	Reel of 2000	SN74HC640PWR	HC640	
		Reel of 250	SN74HC640PWT		
	CDIP – J	Tube of 20	SNJ54HC640J	SNJ54HC640J	
−55°C to 125°C	CFP – W	Tube of 85	SNJ54HC640W	SNJ54HC640W	
	LCCC – FK	Tube of 55	SNJ54HC640FK	SNJ54HC640FK	

[†]Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



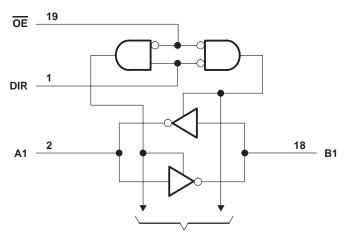
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FUNCTION TABLE (each transceiver)

INP	UTS	ODED ATION					
OE	DIR	OPERATION					
L	L	B data to A bus					
L	Н	A data to B bus					
Н	Χ	Isolation					

logic diagram (positive logic)



To Seven Other Transceivers

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

Supply voltage range, V _{CC}	–0.5 V to 7 V
Input clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{CC}$) (see No	ote 1) ±20 mA
Output clamp current, I _{OK} (V _O < 0 or V _O > V _{CC}) (see	ee Note 1) ±20 mA
Continuous output current, $I_O(V_O = 0 \text{ to } V_{CC}) \dots$	±35 mA
Continuous current through V _{CC} or GND	±70 mA
Package thermal impedance, θ_{JA} (see Note 2): DW	package 58°C/W
N p	ackage 69°C/W
NS	package 60°C/W
PW	package 83°C/W
Storage temperature range, T _{stg}	–65°C to 150°C

[†] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

2. The package thermal impedance is calculated in accordance with JESD 51-7.



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recommended operating conditions (see Note 3)

			SN	154HC64	10	SN	174HC64	10	LINUT
			MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voltage		2	5	6	2	5	6	V
		V _{CC} = 2 V	1.5			1.5			
ViH	High-level input voltage	V _{CC} = 4.5 V	3.15			3.15			V
		V _{CC} = 6 V	4.2			4.2			
		V _{CC} = 2 V			0.5			0.5	
VIL	Low-level input voltage	V _{CC} = 4.5 V			1.35			1.35	V
		VCC = 6 V			1.8			1.8	
VI	Input voltage		0		VCC	0		VCC	V
٧o	Output voltage		0		VCC	0		VCC	V
		V _{CC} = 2 V			1000			1000	
Δt/Δν	Input transition rise/fall time	V _{CC} = 4.5 V			500			500	ns
		V _{CC} = 6 V			400			400	
TA	Operating free-air temperature		-55		125	-40		85	°C

NOTE 3: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

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

					Т	A = 25°C	;	SN54H	C640	SN74HC640		
PAR	AMETER	TEST CO	NDITIONS	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
				2 V	1.9	1.998		1.9		1.9		
			$I_{OH} = -20 \mu A$	4.5 V	4.4	4.499		4.4		4.4		
∨он		VI = VIH or VIL		6 V	5.9	5.999		5.9		5.9		V
			$I_{OH} = -6 \text{ mA}$	4.5 V	3.98	4.3		3.7		3.84		
			$I_{OH} = -7.8 \text{ mA}$	6 V	5.48	5.8		5.2		5.34		
				2 V		0.002	0.1		0.1		0.1	
			I _{OL} = 20 μA	4.5 V		0.001	0.1		0.1		0.1	
VOL		$V_I = V_{IH}$ or V_{IL}		6 V		0.001	0.1		0.1		0.1	V
			I _{OL} = 6 mA	4.5 V		0.17	0.26		0.4		0.33	
	=		$I_{OL} = 7.8 \text{ mA}$	6 V		0.15	0.26		0.4		0.33	
Ц	DIR or OE	$V_I = V_{CC}$ or 0		6 V		±0.1	±100		±1000		±1000	nA
loz	A or B	VO = VCC or 0	•	6 V		±0.01	±0.5		±10		±5	μΑ
ICC		$V_I = V_{CC}$ or 0,	IO = 0	6 V			8		160		80	μΑ
Ci	DIR or OE			2 V to 6 V		3	10		10		10	pF

SN54HC640, SN74HC640 OCTAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS

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switching characteristics over recommended operating free-air temperature range, C_L = 50 pF (unless otherwise noted) (see Figure 1)

	FROM	то	,,	T	λ = 25°C	;	SN54H	C640	SN74H	IC640	
PARAMETER	(INPUT)	(OUTPUT)	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V		29	105		160		130	
t _{pd}	t _{pd} A or B	B or A	4.5 V		10	21		32		26	ns
·			6 V		8	18		27		22	
			2 V		109	230		340		290	
t _{en}	ŌĒ	A or B	4.5 V		27	46		68		58	ns
			6 V		20	39		58		49	
			2 V		40	150		225		190	
^t dis	ŌĒ	A or B	4.5 V		18	30		45		38	ns
			6 V		16	26		38		32	
			2 V		20	60		90		75	
t _t		A or B	4.5 V		8	12		18		15	ns
			6 V		6	10		15		13	

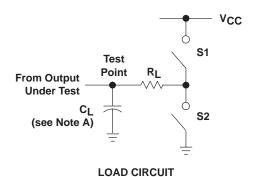
switching characteristics over recommended operating free-air temperature range, C_L = 150 pF (unless otherwise noted) (see Figure 1)

	FROM	то	.,	T _A = 25°C			SN54HC640		SN74H	IC640		
PARAMETER	(INPUT)	(OUTPUT)	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT	
			2 V		44	190		290		235		
^t pd	A or B	B or A	4.5 V		14	38		58		47	ns	
			6 V		11	33		49		41		
			2 V		124	315		470		395		
t _{en}	ŌĒ	A or B	4.5 V		31	63		94		79	79 ns	
			6 V		23	54		80		68		
			2 V		45	210		315		265		
t _t	t _t	A or B	4.5 V		17	42		63		53	ns	
			6 V		13	36		53		45		

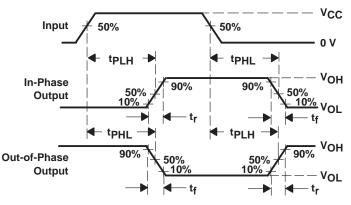
operating characteristics, $T_A = 25^{\circ}C$

	PARAMETER	TEST CONDITIONS	TYP	UNIT
C _{pd}	Power dissipation capacitance	No load	40	pF

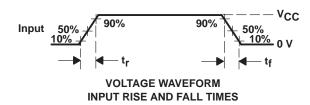
PARAMETER MEASUREMENT INFORMATION

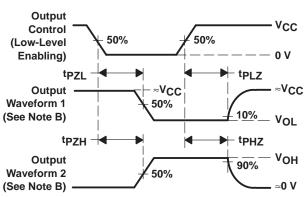


PARAI	METER	RL	CL	S1	S2
	tPZH	1 k Ω	50 pF or	Open	Closed
ten	tPZL	1 K22	150 pF	Closed	Open
4	tPHZ	1 k Ω	50 pF	Open	Closed
^t dis	t _{PLZ}	1 K22	50 pr	Closed	Open
t _{pd} or	t _{pd} or t _t		50 pF or 150 pF	Open	Open



VOLTAGE WAVEFORMS
PROPAGATION DELAY AND OUTPUT TRANSITION TIMES





VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES FOR 3-STATE OUTPUTS

- NOTES: A. C_L includes probe and test-fixture capacitance.
 - B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
 - C. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, Z_O = 50 Ω , t_f = 6 ns.
 - D. The outputs are measured one at a time with one input transition per measurement.
 - E. tpLz and tpHz are the same as tdis.
 - F. tpzL and tpzH are the same as ten.
 - G. tpLH and tpHL are the same as tpd.

Figure 1. Load Circuit and Voltage Waveforms







24-Aug-2014

PACKAGING INFORMATION

Orderable Device	Status	Package Type	_	Pins	_	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
5962-87809012A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 87809012A SNJ54HC 640FK	Samples
5962-8780901RA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-8780901RA SNJ54HC640J	Samples
SN54HC640J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN54HC640J	Samples
SN74HC640DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC640	Samples
SN74HC640DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC640	Samples
SN74HC640DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC640	Samples
SN74HC640N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74HC640N	Samples
SN74HC640NE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74HC640N	Samples
SN74HC640NSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC640	Samples
SN74HC640PW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC640	Samples
SN74HC640PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC640	Samples
SN74HC640PWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC640	Samples
SN74HC640PWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC640	Samples
SNJ54HC640FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 87809012A SNJ54HC 640FK	Samples
SNJ54HC640J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-8780901RA SNJ54HC640J	Samples

PACKAGE OPTION ADDENDUM



24-Aug-2014

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

- (3) MSL, Peak Temp. The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead/Ball Finish Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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OTHER QUALIFIED VERSIONS OF SN54HC640, SN74HC640:

Catalog: SN74HC640

Military: SN54HC640





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NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





A0	Dimension designed to accommodate the component width
	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74HC640DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74HC640NSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1
SN74HC640PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

PACKAGE MATERIALS INFORMATION

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*All dimensions are nominal

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74HC640DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74HC640NSR	SO	NS	20	2000	367.0	367.0	45.0
SN74HC640PWR	TSSOP	PW	20	2000	367.0	367.0	38.0

14 LEADS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. Falls within JEDEC MS-004



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-013 variation AC.



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Refer to IPC7351 for alternate board design.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate design.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



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