Member of the Texas Instruments	DGG OR DG	PACKAGE
Widebus™ Family	(TOP V	/IEW)
<ul> <li>Optimized for 1.8-V Operation and is 3.6-V I/O Tolerant to Support Mixed-Mode Signal</li> </ul>		48 2 <u>0</u> E
Operation	1Y1 2	47 1A1
<ul> <li>I<sub>off</sub> Supports Partial-Power-Down Mode Operation</li> </ul>	1Y2 [] 3 GND [] 4 1Y3 [] 5	46   1A2 45   GND 44   1A3
• Sub 1-V Operable	1Y4 6	44   1A3 43   1A4
• Max t <sub>pd</sub> of 2 ns at 1.8 V		43 V <sub>CC</sub>
<ul> <li>Low Power Consumption, 20-µA Max I<sub>CC</sub></li> </ul>	2Y1 8	41 2A1
	2Y2 9	40 2A2
• ±8-mA Output Drive at 1.8 V	GND 🛛 10	39 🛛 GND
Latch-Up Performance Exceeds 100 mA Per	2Y3 🛿 11	38 🛛 2A3
JESD 78, Class II	2Y4 🚺 12	37 🛛 2A4
ESD Protection Exceeds JESD 22	3Y1 🛛 13	36 🛛 3A1
<ul> <li>2000-V Human-Body Model (A114-A)</li> </ul>	3Y2 🛛 14	35 🛛 3A2
- 200-V Machine Model (A115-A)	GND 🛛 15	34 🛛 GND
<ul> <li>1000-V Charged-Device Model (C101)</li> </ul>	3Y3 🛛 16	33 🛛 3A3
departmention/ordering information	3Y4 🛛 17	32 🛛 3A4
description/ordering information	V <sub>CC</sub> 18	31 🛛 V <sub>CC</sub>
This 16-bit buffer/driver is operational at 0.8-V to	4Y1 🛛 19	30 4A1
2.7-V V <sub>CC</sub> , but is designed specifically for 1.65-V	4Y2 20	29 4A2
to 1.95-V V <sub>CC</sub> operation.	GND 21	28 GND
The SN74AUC16240 is designed specifically to	4Y3 22	27 <b>4</b> A3
The SN74AUC16240 is designed specifically to improve the performance and density of 3-state	4Y4 23	26 4 <u>A4</u>
memory address drivers, clock drivers, and bus-oriented receivers and transmitters.	40E 24	25 3OE

The device can be used as four 4-bit buffers, two 8-bit buffers, or one 16-bit buffer. It provides inverting outputs and symmetrical active-low output-enable ( $\overline{OE}$ ) inputs.

To ensure the high-impedance state during power up or power down,  $\overline{OE}$  should be tied to V<sub>CC</sub> through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

This device is fully specified for partial-power-down applications using I<sub>off</sub>. The I<sub>off</sub> circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

TA	PACKAG	GE†	ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	TSSOP – DGG	Tape and reel	SN74AUC16240DGGR	AUC16240
	TVSOP – DGV	Tape and reel	SN74AUC16240DGVR	MH240
	VFBGA – GQL	Tape and reel	SN74AUC16240GQLR	MH240

#### **ORDERING INFORMATION**

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



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# SN74AUC16240 **16-BIT BUFFER/DRIVER** WITH 3-STATE OUTPUTS SCES390E – MARCH 2002 – REVISED DECEMBER 2002

#### GQL PACKAGE (TOP VIEW)

		1	2	3	4	5	6	
Α	$\left( \right)$	С	С	С	С	С	С	
в		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
С		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
D		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Е		$\bigcirc$	$\bigcirc$			$\bigcirc$	$\bigcirc$	
F		$\bigcirc$	$\bigcirc$			$\bigcirc$	$\bigcirc$	
G		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
н		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
J		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
κ		С	С	С	С	С	С	J

### terminal assignments

	1	2	3	4	5	6
Α	1 <mark>OE</mark>	NC	NC	NC	NC	2 <mark>0E</mark>
в	1Y2	1Y1	GND	GND	1A1	1A2
С	1Y4	1Y3	VCC	VCC	1A3	1A4
D	2Y2	2Y1	GND	GND	2A1	2A2
Е	2Y4	2Y3			2A3	2A4
F	3Y1	3Y2			3A2	3A1
G	3Y3	3Y4	GND	GND	3A4	3A3
н	4Y1	4Y2	VCC	VCC	4A2	4A1
J	4Y3	4Y4	GND	GND	4A4	4A3
κ	4OE	NC	NC	NC	NC	3OE
к	4 <mark>0E</mark>	NC	NC	NC	NC	3 <mark>0</mark> E

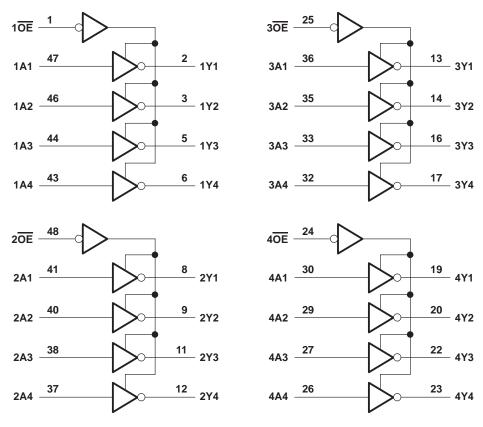
NC - No internal connection

#### FUNCTION TABLE (each 4-bit buffer)

INPU	JTS	OUTPUT
OE	Α	Y
L	Н	L
L	L	н
Н	Х	Z



### logic diagram (positive logic)



Pin numbers shown are for the DGG and DGV packages.

### absolute maximum ratings over operating free-air temperature range (unless otherwise noted)<sup>†</sup>

Supply voltage range, V <sub>CC</sub> Input voltage range, V <sub>I</sub> (see Note 1)	
Voltage range applied to any output in the high-impedance or power-off state, $V_{O}$	
(see Note 1)	–0.5 V to 3.6 V
Output voltage range, V <sub>O</sub> (see Note 1)	–0.5 V to V <sub>CC</sub> + 0.5 V
Input clamp current, I <sub>IK</sub> (VI < 0)	
Output clamp current, $I_{OK}$ (V <sub>O</sub> < 0)	
Continuous output current, I <sub>O</sub>	±20 mA
Continuous current through V <sub>CC</sub> or GND	±100 mA
Package thermal impedance, $\theta_{JA}$ (see Note 2): DGG package	
DGV package	
GQL package	
Storage temperature range, T <sub>stg</sub>	

<sup>†</sup> 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 negative-voltage 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.



# SN74AUC16240 16-BIT BUFFER/DRIVER WITH 3-STATE OUTPUTS SCES390E – MARCH 2002 – REVISED DECEMBER 2002

### recommended operating conditions (see Note 3)

			MIN	MAX	UNI				
VCC	Supply voltage		0.8	2.7	V				
		V <sub>CC</sub> = 0.8 V	VCC						
VIH	High-level input voltage	V <sub>CC</sub> = 1.1 V to 1.95 V	$0.65 \times V_{CC}$		V				
		$V_{CC}$ = 2.3 V to 2.7 V	1.7						
		V <sub>CC</sub> = 0.8 V		0					
VIL	Low-level input voltage	V <sub>CC</sub> = 1.1 V to 1.95 V		$0.35 \times V_{CC}$	V				
		$V_{CC}$ = 2.3 V to 2.7 V		0.7					
VI	Input voltage		0	3.6	V				
Vo	Output voltage		0	VCC	V				
		V <sub>CC</sub> = 0.8 V		-0.7					
		V <sub>CC</sub> = 1.1 V		-3					
юн	High-level output current	$V_{CC} = 1.4 V$		-5	mA				
						V <sub>CC</sub> = 1.65 V	V <sub>CC</sub> = 1.65 V		-8
		V <sub>CC</sub> = 2.3 V		-9					
		V <sub>CC</sub> = 0.8 V		0.7					
		V <sub>CC</sub> = 1.1 V		3					
OL	Low-level output current	V <sub>CC</sub> = 1.4 V		5	mA				
		V <sub>CC</sub> = 1.65 V		8					
		V <sub>CC</sub> = 2.3 V		9					
		V <sub>CC</sub> = 0.8 V, 1.3 V		20					
Δt/Δv	Input transition rise or fall rate	V <sub>CC</sub> = 1.6 V, 1.95 V		10	ns/\				
		V <sub>CC</sub> = 2.7 V		5					
TA	Operating free-air temperature		-40	85	°C				

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



# SN74AUC16240 **16-BIT BUFFER/DRIVER** WITH 3-STATE OUTPUTS SCES390E – MARCH 2002 – REVISED DECEMBER 2002

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

PARAMETER	TEST CONDITIONS	VCC	MIN	түр†	MAX	UNIT
	I <sub>OH</sub> = -100 μA	0.8 V to 2.7 V	V <sub>CC</sub> -0.1			
V <sub>OH</sub> V <sub>OL</sub> I <sub>I</sub> A or $\overline{\text{OE}}$ inputs I <sub>off</sub> I <sub>OZ</sub> I <sub>CC</sub> C <sub>i</sub>	I <sub>OH</sub> = -0.7 mA	0.8 V		0.55		
	$I_{OH} = -3 \text{ mA}$	1.1 V	0.8			V
	$I_{OH} = -5 \text{ mA}$	1.4 V	1			V
	$I_{OH} = -8 \text{ mA}$	1.65 V	1.2			
	$I_{OH} = -9 \text{ mA}$	2.3 V	1.8			
	I <sub>OL</sub> = 100 μA	0.8 V to 2.7 V			0.2	
Vol	$I_{OL} = 0.7 \text{ mA}$	0.8 V		0.25		
	$I_{OL} = 3 \text{ mA}$	1.1 V			0.3	V
VOL	$I_{OL} = 5 \text{ mA}$	1.4 V			0.4	V
V <sub>OL</sub>	I <sub>OL</sub> = 8 mA	1.65 V			0.45	
	I <sub>OL</sub> = 9 mA	2.3 V			0.6	
I A or OE inputs	$V_I = V_{CC}$ or GND	0 to 2.7 V			±5	μA
l <sub>off</sub>	$V_{I}$ or $V_{O}$ = 2.7 V	0			±10	μA
I <sub>OZ</sub>	$V_{O} = V_{CC}$ or GND	2.7 V			±10	μA
ICC	$V_{I} = V_{CC} \text{ or } GND, \qquad I_{O} = 0$	0.8 V to 2.7 V			20	μA
Ci	$V_I = V_{CC}$ or GND	2.5 V		3	4	pF
Co	$V_{O} = V_{CC} \text{ or } GND$	2.5 V		5.5	6	pF

<sup>†</sup> All typical values are at  $T_A = 25^{\circ}C$ .

switching characteristics over	recommended	operating	free-air	temperature	range	(unless
otherwise noted) (see Figure 1)				-	•	

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 0.8 V	V <sub>CC</sub> = ± 0.	: 1.2 V 1 V	V <sub>CC</sub> = ± 0.	: 1.5 V 1 V	-	C = 1.8 0.15 V		V <sub>CC</sub> = ± 0.		UNIT
	(INFOT)	(001201)	TYP	MIN	MAX	MIN	MAX	MIN	TYP	MAX	MIN	MAX	
<sup>t</sup> pd	А	Y	5.9	0.9	2.6	0.7	1.8	0.6	1.4	2	0.4	1.6	ns
ten	OE	Y	7.9	1.2	3.8	0.8	2.5	0.7	1.5	2.5	0.7	2	ns
<sup>t</sup> dis	OE	Y	9.3	2.1	6	1.5	4.8	1.8	2.7	4.5	0.6	2.3	ns

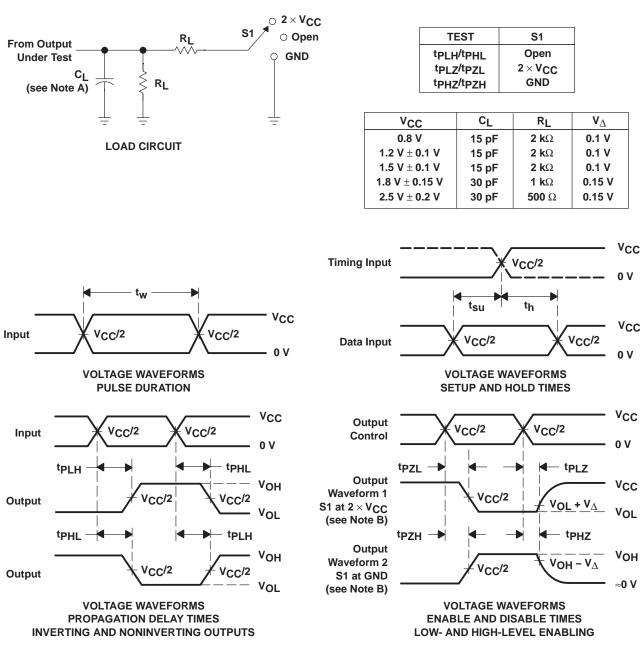
# operating characteristics, $T_A = 25^{\circ}C$

	PARAMETER		TEST	V <sub>CC</sub> = 0.8 V	V <sub>CC</sub> = 1.2 V	V <sub>CC</sub> = 1.5 V	V <sub>CC</sub> = 1.8 V	V <sub>CC</sub> = 2.5 V	LINUT
	FARAIVIETE	ĸ	CONDITIONS	TYP	TYP	(P TYP TYP TYP		TYP	UNIT
	Outputs enabled	( 40 MIL-	24	24	25	26	30		
Cpd	C <sub>pd</sub> dissipation capacitance	Outputs disabled	f = 10 MHz	2	2	2	3	4	pF



## SN74AUC16240 **16-BIT BUFFER/DRIVER** WITH 3-STATE OUTPUTS

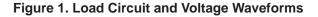
SCES390E - MARCH 2002 - REVISED DECEMBER 2002



PARAMETER MEASUREMENT INFORMATION

#### NOTES: A. Cl includes probe and jig 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. All input pulses are supplied by generators having the following characteristics: PRR  $\leq$  10 MHz, Z<sub>O</sub> = 50  $\Omega$ , slew rate  $\geq$  1 V/ns.
- D. The outputs are measured one at a time with one 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.
- H. All parameters and waveforms are not applicable to all devices.







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#### **PACKAGING INFORMATION**

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/ Ball Finish	MSL Peak Temp <sup>(3)</sup>	Samples (Requires Login)
74AUC16240DGGRE4	ACTIVE	TSSOP	DGG	48	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
74AUC16240DGGRG4	ACTIVE	TSSOP	DGG	48	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
74AUC16240DGVRE4	ACTIVE	TVSOP	DGV	48	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
74AUC16240DGVRG4	ACTIVE	TVSOP	DGV	48	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74AUC16240DGGR	ACTIVE	TSSOP	DGG	48	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74AUC16240DGVR	ACTIVE	TVSOP	DGV	48	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	

<sup>(1)</sup> 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)

<sup>(3)</sup> MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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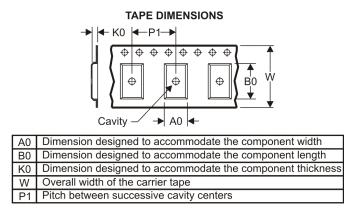
# PACKAGE MATERIALS INFORMATION

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### TAPE AND REEL INFORMATION





### QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal	dimensions are nominal											
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
SN74AUC16240DGGR	TSSOP	DGG	48	2000	330.0	24.4	8.6	15.8	1.8	12.0	24.0	Q1
SN74AUC16240DGVR	TVSOP	DGV	48	2000	330.0	16.4	7.1	10.2	1.6	12.0	16.0	Q1

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# PACKAGE MATERIALS INFORMATION

29-Jul-2011



\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUC16240DGGR	TSSOP	DGG	48	2000	346.0	346.0	41.0
SN74AUC16240DGVR	TVSOP	DGV	48	2000	346.0	346.0	33.0

## **MECHANICAL DATA**

PLASTIC SMALL-OUTLINE

MPDS006C - FEBRUARY 1996 - REVISED AUGUST 2000

### DGV (R-PDSO-G\*\*)

24 PINS SHOWN



NOTES: 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 per side.
- D. Falls within JEDEC: 24/48 Pins MO-153

14/16/20/56 Pins – MO-194



## **MECHANICAL DATA**

MTSS003D - JANUARY 1995 - REVISED JANUARY 1998

#### DGG (R-PDSO-G\*\*)

#### PLASTIC SMALL-OUTLINE PACKAGE

**48 PINS SHOWN** 



NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold protrusion not to exceed 0,15.
- D. Falls within JEDEC MO-153



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