SCES404E -JULY 2002-REVISED JULY 2012

16-BIT EDGE-TRIGGERED D-TYPE FLIP-FLOP WITH 3-STATE OUTPUTS

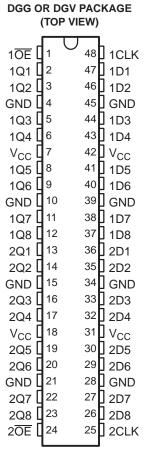
Check for Samples: SN74AUCH16374

FEATURES

- Member of the Texas Instruments Widebus™
 Family
- Optimized for 1.8-V Operation and Is 3.6-V I/O Tolerant to Support Mixed-Mode Signal Operation
- I_{off} Supports Partial-Power-Down Mode Operation
- Sub-1-V Operable
- Max t_{pd} of 2.8 ns at 1.8 V
- Low Power Consumption, 20 μA Max I_{CC}
- ±8-mA Output Drive at 1.8 V
- Bus Hold on Data Inputs Eliminates the Need for External Pullup/Pulldown Resistors
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)

DESCRIPTION/ORDERING INFORMATION

This 16-bit edge-triggered D-type flip-flop is operational at 0.8-V to 2.7-V $V_{\rm CC}$, but is designed specifically for 1.65-V to 1.95-V $V_{\rm CC}$ operation.



The SN74AUCH16374 is particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers. It can be used as two 8-bit flip-flops or one 16-bit flip-flop. On the positive transition of the clock (CLK) input, the Q outputs of the flip-flop take on the logic levels set up at the data (D) inputs.

A buffered output-enable (\overline{OE}) input can be used to place the eight outputs in either a normal logic state (high or low logic levels) or the high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without interface or pullup components.

OE does not affect internal operations of the latch. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

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Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING
	TSSOP - DGG	Tape and reel	SN74AUCH16374DGGR	AUCH16374
4000 +- 0500	TVSOP - DGV	Tape and reel	SN74AUCH16374DGVR	MJ374
–40°C to 85°C	VFBGA – GQL	Tape and reel	SN74AUCH16374GQLR	MJ374
	VFBGA – ZQL	Tape and reel	SN74AUCH16374ZQLR	MJ374

⁽¹⁾ Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

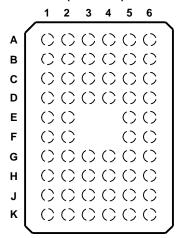
DESCRIPTION/ORDERING INFORMATION(CONTINUED)

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

Active bus-hold circuitry holds unused or undriven inputs at a valid logic state. Use of pullup or pulldown resistors with the bus-hold circuitry is not recommended.

This device is fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.





TERMINAL ASSIGNMENTS(1)

	1	2	3	4	5	6
Α	1 OE	NC	NC	NC	NC	1CLK
В	1Q2	1Q1	GND	GND	1D1	1D2
С	1Q4	1Q3	V _{CC}	V _{CC}	1D3	1D4
D	1Q6	1Q5	GND	GND	1D5	1D6
E	1Q8	1Q7			1D7	1D8
F	2Q1	2Q2			2D2	2D1
G	2Q3	2Q4	GND	GND	2D4	2D3
Н	2Q5	2Q6	V _{CC}	V _{CC}	2D6	2D5
J	2Q7	2Q8	GND	GND	2D8	2D7
K	2 OE	NC	NC	NC	NC	2CLK

(1) NC - No internal connection

FUNCTION TABLE (EACH FLIP-FLOP)

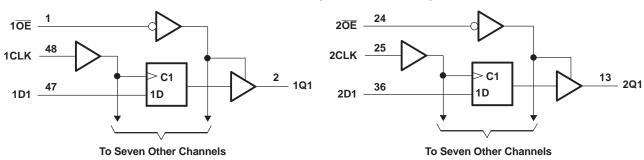
	INPUTS	OUTPUT	
OE	CLK	D	Q
L	1	Н	Н
L	↑	L	L
L	H or L	Χ	Q_0
Н	Χ	Χ	Z

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LOGIC DIAGRAM (POSITIVE LOGIC)



Pin numbers shown are for the DGG and DGV packages.

Absolute Maximum Ratings(1)

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

			MIN	MAX	UNIT
V _{CC}	Supply voltage range		-0.5	3.6	V
VI	Input voltage range (2)		-0.5	3.6	V
Vo	Voltage range applied to any output in t	the high-impedance or power-off state (2)	-0.5	3.6	V
Vo	Output voltage range (2)		-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V ₁ < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		-50	mA
Io	Continuous output current			±20	mA
	Continuous current through each V _{CC} o	r GND		±100	mA
		DGG package		70	
θ_{JA}	Package thermal impedance (3)	DGV package		58	°C/W
		ZQL/GQL package		42	
T _{stg}	Storage temperature range		– 65	150	°C

⁽¹⁾ 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.

⁽²⁾ The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.

⁽³⁾ The package thermal impedance is calculated in accordance with JESD 51-7.



Recommended Operating Conditions(1)

			MIN	MAX	UNIT
V _{CC}	Supply voltage		0.8	2.7	V
		V _{CC} = 0.8 V	V _{CC}		
V_{IH}	High-level input voltage	V _{CC} = 1.1 V to 1.95 V	0.65 × V _{CC}		V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		
		V _{CC} = 0.8 V		0	
V_{IL}	Low-level input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$		$0.35 \times V_{CC}$	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	
VI	Input voltage		0	3.6	V
V	Output valtage	Active state	0	V_{CC}	V
Vo	O Output voltage	3-state	0	3.6	V
		V _{CC} = 0.8 V		-0.7	
		V _{CC} = 1.1 V		-3	
I _{OH}	High-level output current	V _{CC} = 1.4 V		- 5	mA
		V _{CC} = 1.65 V		-8	
		V _{CC} = 2.3 V		-9	
		V _{CC} = 0.8 V		0.7	
		V _{CC} = 1.1 V		3	
I_{OL}	Low-level output current	V _{CC} = 1.4 V		5	mA
		V _{CC} = 1.65 V		8	
		V _{CC} = 2.3 V		9	
Δt/Δν	Input transition rise or fall rate			20	ns/V
T _A	Operating free-air temperature		-40	85	°C

⁽¹⁾ 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)

PARAMETER	TEST CONDITIONS	V _{CC}	MIN TYP(1)	MAX	UNIT	
	$I_{OH} = -100 \mu A$	0.8 V to 2.7 V	V _{CC} - 0.1			
	$I_{OH} = -0.7 \text{ mA}$	0.8 V	0.55			
\/	$I_{OH} = -3 \text{ mA}$	1.1 V	0.8		1/	
V _{OH}	$I_{OH} = -5 \text{ mA}$	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 _{OL} = 100 μA	0.8 V to 2.7 V		0.2		
	I _{OL} = 0.7 mA	0.8 V	0.25			
\/	$I_{OL} = 3 \text{ mA}$	1.1 V		0.3	V	
V_{OL}	I _{OL} = 5 mA	1.4 V		0.4	V	
	I _{OL} = 8 mA	1.65 V		0.45		
	$I_{OL} = 9 \text{ mA}$	2.3 V		0.6		
I _I All inputs	$V_I = V_{CC}$ or GND	0 to 2.7 V		±5	μΑ	
I _{BHL} ⁽²⁾	$V_1 = 0.35 \text{ V}$	1.1 V	10			
	$V_1 = 0.47 \text{ V}$	1.4 V	15		μΑ	
	$V_1 = 0.57 \text{ V}$	1.65 V	20			
	$V_{I} = 0.7 \ V$	2.3 V	40			
	V _I = 0.8 V	1.1 V	- 5		μA	
(3)	$V_{I} = 0.9 V$	1.4 V	-15			
I _{BHH} ⁽³⁾	$V_1 = 1.07 \text{ V}$	1.65 V	-20			
	V _I = 1.7 V	2.3 V	-40			
		1.3 V	75			
I _{BHLO} (4)	$V_I = 0$ to V_{CC}	1.6 V	125			
IBHLO ` '	VI = 0 to VCC	1.95 V	175		μΑ	
		2.7 V	275			
		1.3 V	- 75			
ı (5)	V = 0 to V	1.6 V	-125			
I _{BHHO} ⁽⁵⁾	$V_I = 0$ to V_{CC}	1.95 V	-175		μΑ	
		2.7 V	-275			
l _{off}	V_I or $V_O = 2.7 \text{ V}$	0		±10	μΑ	
l _{OZ}	$V_O = V_{CC}$ or GND	2.7 V		±10	μΑ	
Icc	$V_I = V_{CC}$ or GND, $I_O = 0$	0.8 V to 2.7 V		20	μΑ	
C _i	$V_I = V_{CC}$ or GND	2.5 V	3		pF	
C _o	$V_O = V_{CC}$ or GND	2.5 V	5		pF	

 ⁽¹⁾ All typical values are at T_A = 25°C.
 (2) The bus-hold circuit can sink at least the minimum low sustaining current at V_{IL} max. I_{BHL} should be measured after lowering V_{IN} to GND and then raising it to $V_{\text{\scriptsize IL}}$ max.

The bus-hold circuit can source at least the minimum high sustaining current at V_{IH} min. I_{BHH} should be measured after raising V_{IN} to V_{CC} and then lowering it to V_{IH} min.

An external driver must source at least I_{BHLO} to switch this node from low to high.

An external driver must sink at least I_{BHHO} to switch this node from high to low.

Timing Requirements

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

		V _{CC} = 0.8 V	V _{CC} = ± 0.1	1.2 V 1 V	V _{CC} = ± 0.1			V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V	
		TYP	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
f _{clock}	Clock frequency	85		250		250		250		250	MHz
t _w	Pulse duration, CLK high or low	5.9	1.9		1.9		1.9		1.9		ns
t _{su}	Setup time, data before CLK↑	1.4	1.2		0.7		0.6		0.6		ns
t _h	Hold time, data after CLK↑	0.1	0.4		0.4		0.4		0.4		ns

Switching Characteristics

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 0.8 V	V _{CC} = ± 0.		V _{CC} = ± 0.	1.5 V 1 V		_C = 1.8 0.15 V		V _{CC} = ± 0.		UNIT
	(INPOT)	(001701)	TYP	MIN	MAX	MIN	MAX	MIN	TYP	MAX	MIN	MAX	
f _{max}			85	250		250		250			250		MHz
t _{pd}	CLK	Q	7.3	1	4.5	0.8	2.9	0.7	1.5	2.8	0.7	2.2	ns
t _{en}	ŌĒ	Q	7	1.2	5.3	0.8	3.6	8.0	1.5	2.9	0.7	2.2	ns
t _{dis}	ŌE	Q	8.2	2	7.1	1	4.8	1.4	2.7	4.5	0.5	2.2	ns

Operating Characteristics(1)

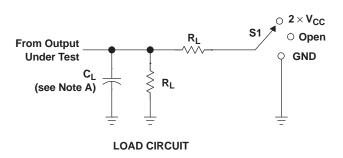
 $T_{\Delta} = 25^{\circ}C$

	DADAMETER		TEST	$V_{CC} = 0.8 \text{ V}$	V _{CC} = 1.2 V	V _{CC} = 1.5 V	V _{CC} = 1.8 V	V _{CC} = 2.5 V	LINUT
	PARAMETER CONDI		CONDITIONS	TYP	TYP	TYP	TYP	TYP	UNIT
C _{pd} ⁽²⁾ (each output)	Power dissipation capacitance	Outputs enabled, 1 output switching	$\begin{array}{l} 1~f_{data}=5~MHz,\\ 1~f_{clk}=10~MHz,\\ \underline{1~f_{out}}=5~MHz,\\ \overline{OE}=GND,\\ C_L=0~pF \end{array}$	24	24	24.1	26.2	31.2	pF
C _{pd} (Z)	Power dissipation capacitance	Outputs disabled, 1 clock and 1 data switching	$\begin{array}{l} 1 \; f_{data} = 5 \; \text{MHz}, \\ 1 \; f_{clk} = 10 \; \text{MHz}, \\ f_{out} = \text{not} \\ \hline \text{oE} = V_{CC}, \\ C_L = 0 \; \text{pF} \end{array}$	7.5	7.5	8	9.4	13.2	pF
C _{pd} ⁽³⁾ (each clock)	Power dissipation capacitance	Outputs disabled, clock only switching	$\begin{array}{l} 1 \; f_{data} = 0 \; \text{MHz}, \\ 1 \; f_{clk} = 10 \; \text{MHz}, \\ f_{out} = \text{not} \\ \text{switching}, \\ \overline{\text{OE}} = V_{CC}, \\ C_L = 0 \; \text{pF} \end{array}$	13.8	13.8	14	14.7	17.5	pF

 ⁽¹⁾ Total device C_{pd} for multiple (n) outputs switching and (y) clocks inputs switching = {n * C_{pd} (each output)} + {y * C_{pd} (each clock)}.
 (2) C_{pd} (each output) is the C_{pd} for each data bit (input and output circuitry) as it operates at 5 MHz (Note: the clock is operating at 10 MHz in this test, but its I_{CC} component has been subtracted out).
 (3) C_{pd} (each clock) is the C_{pd} for the clock circuitry only as it operates at 10 MHz.

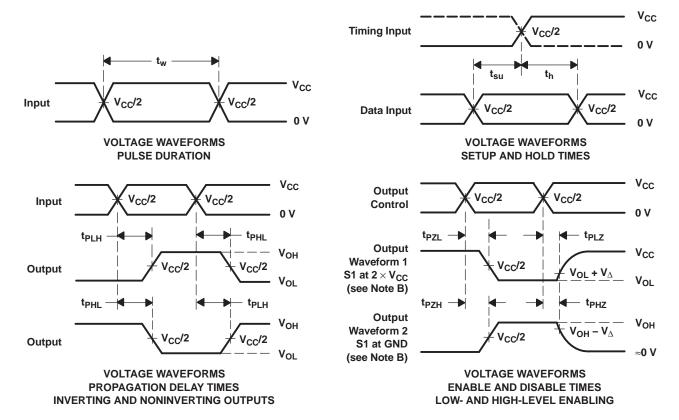


PARAMETER MEASUREMENT INFORMATION



TEST	S1
t _{PLH} /t _{PHL} t _{PLZ} /t _{PZL} t _{PHZ} /t _{PZH}	Open 2×V _{CC} GND

V _{CC}	CL	R _L	$oldsymbol{V}_\Delta$
0.8 V	15 pF	2 k Ω	0.1 V
1.2 V \pm 0.1 V	15 pF	2 k Ω	0.1 V
1.5 V \pm 0.1 V	15 pF	2 k Ω	0.1 V
1.8 V \pm 0.15 V	30 pF	1 k Ω	0.15 V
2.5 V \pm 0.2 V	30 pF	500 Ω	0.15 V



NOTES: A. C_L 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, $Z_0 = 50 \Omega$, slew rate \geq 1 V/ns.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and t_{PHZ} are the same as t_{dis}.
- F. t_{PZL} and t_{PZH} are the same as t_{en}.
- G. t_{PLH} and t_{PHL} are the same as t_{pd}.
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms



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SCES404E – JULY 2002 – REVISED JULY 201	SCES404E -	JULY 20	002-RE\	VISED	JULY	2012
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Changes from Revision D (May 2005) to Revision E					
•	Added new ZQL package to the datasheet.		1		

11-Nov-2025 www.ti.com

PACKAGING INFORMATION

Orderable part number	Status	Material type	Package Pins	Package qty Carrier	RoHS	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
	` '	,			,	(4)	(5)		, ,
SN74AUCH16374DGGR	Active	Production	TSSOP (DGG) 48	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AUCH16374
SN74AUCH16374DGGR.B	Active	Production	TSSOP (DGG) 48	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AUCH16374
SN74AUCH16374DGVR	Active	Production	TVSOP (DGV) 48	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	MJ374
SN74AUCH16374DGVR.B	Active	Production	TVSOP (DGV) 48	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	MJ374

⁽¹⁾ Status: For more details on status, see our product life cycle.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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⁽³⁾ RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

⁽⁴⁾ Lead finish/Ball material: Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

⁽⁵⁾ MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

⁽⁶⁾ Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





A0	Dimension designed to accommodate the component width
В0	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	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AUCH16374DGGR	TSSOP	DGG	48	2000	330.0	24.4	8.6	13.0	1.8	12.0	24.0	Q1
SN74AUCH16374DGVR	TVSOP	DGV	48	2000	330.0	16.4	7.1	10.2	1.6	12.0	16.0	Q1

PACKAGE MATERIALS INFORMATION

www.ti.com 19-Jul-2025



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUCH16374DGGR	TSSOP	DGG	48	2000	356.0	356.0	45.0
SN74AUCH16374DGVR	TVSOP	DGV	48	2000	353.0	353.0	32.0

DGV (R-PDSO-G**)

24 PINS SHOWN

PLASTIC SMALL-OUTLINE



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



SMALL OUTLINE PACKAGE



NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 2. This drawing is subject to change without notice.

 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
 4. Reference JEDEC registration MO-153.



SMALL OUTLINE PACKAGE



NOTES: (continued)

- 5. Publication IPC-7351 may have alternate designs.
- 6. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



SMALL OUTLINE PACKAGE



NOTES: (continued)

- 7. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 8. Board assembly site may have different recommendations for stencil design.



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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