

PCN Number:	20240902000.0	PCN Date:	September 03, 2024
Title:	Datasheet for SNx4ACT74, SNx4AC74, SNx4ACT00, SNx4AC00, SNx4ACT10, SNx4AC32, SNx4AC10, SN74ACT32, SNx4ACT11, SNx4AC11, SNx4AC86, SNx4ACT86, SNx4ACT08, SNx4AC08, SN74ACT10-Q1, SN74AC08-Q1, CDx4AC74, CD74AC251, CDx4AC257, CDx4ACT257, CD74ACT258. CDx4AC00, CDx4AC02, CDx4AC08, CDx4ACT00, CDx4ACT08, CDx4ACT74, CD74AC151, CDx4AC153, CDx4ACT151, CD74ACT157, CDx4ACT322, CDx4AC32		
Customer Contact:	Change Management team	Dept:	Quality Services
Change Type:	Electrical Specification		

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



SN54ACT74, SN74ACT74

SCAS520I – AUGUST 1995 – REVISED JULY 2024

Changes from Revision H (October 2003) to Revision I (July 2024)

Page

- Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section 1
- Updated the numbering format for tables, figures, and cross-references throughout the document..... 1
- Updated RθJA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W..... 4



SN54AC74, SN74AC74

SCAS521G – AUGUST 1995 – REVISED JULY 2024

Changes from Revision F (October 2003) to Revision G (July 2024)

Page

- Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section 1
- Updated RθJA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W..... 5



SN54ACT00, SN74ACT00

SCAS523E – OCTOBER 2003 – REVISED JULY 2024

Changes from Revision D (October 2003) to Revision E (July 2024)

Page

- Added Applications section, Device Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section 1
- Updated RθJA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W..... 4



SN54AC00, SN74AC00

SCAS524F – AUGUST 1995 – REVISED JULY 2024

Changes from Revision E (October 2003) to Revision F (July 2024)

Page

- Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section 1
- Updated RθJA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W..... 5

Changes from Revision C (October 2003) to Revision D (July 2024)	Page
• Added Device Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section	1
• Updated R θ JA values: PW = 113 to 145.7, all values in °C/W.....	4

Changes from Revision D (October 2023) to Revision E (July 2024)	Page
• Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section	1
• Updated R θ JA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W.....	5

Changes from Revision D (October 2003) to Revision E (July 2024)	Page
• Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section	1
• Updated R θ JA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W.....	5

Changes from Revision C (October 2003) to Revision D (July 2024)	Page
• Added Device Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section	1
• Updated R θ JA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W.....	5

Changes from Revision C (October 2003) to Revision D (July 2024)	Page
• Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section	1
• Updated R θ JA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W.....	4

Changes from Revision D (October 2003) to Revision E (July 2024)	Page
--	------

- | | |
|---|---|
| • Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated RθJA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W..... | 5 |



SN54AC86, SN74AC86

SCAS533D – AUGUST 1995 – REVISED JULY 2024

Changes from Revision C (October 2003) to Revision D (July 2024)	Page
--	------

- | | |
|---|---|
| • Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated RθJA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W..... | 4 |



SN54ACT86, SN74ACT86

SCAS534D – AUGUST 1995 – REVISED JULY 2024

Changes from Revision C (October 2003) to Revision D (July 2024)	Page
--	------

- | | |
|---|---|
| • Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated RθJA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W..... | 4 |



SN54ACT08, SN74ACT08

SCAS535D – SEPTEMBER 1995 – REVISED AUGUST 2024

Changes from Revision C (October 2003) to Revision D (August 2024)	Page
--	------

- | | |
|---|---|
| • Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated RθJA value: PW = 113 to 145.7, all values in °C/W..... | 4 |



SN54AC08, SN74AC08

SCAS536E – SEPTEMBER 1995 – REVISED JULY 2024

Changes from Revision D (October 2003) to Revision E (July 2024)	Page
--	------

- | | |
|---|---|
| • Added Device Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated RθJA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W | 5 |



SN74ACT10-Q1

SCAS784B – OCTOBER 2004 – REVISED JULY 2024

Changes from Revision A (January 2008) to Revision B (July 2024)	Page
--	------

- | | |
|--|---|
| • Added Package Information table, Pin Functions table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated RθJA values: PW = 113 to 145.7, all values in °C/W..... | 4 |

Changes from Revision A (January 2008) to Revision B (July 2024) Page

- Added *Package Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section 1
- Updated R θ JA values: D = 86 to 119.9, PW = 113 to 145.7, all values in °C/W 4

Changes from Revision D (December 2002) to Revision E (August 2024) Page

- Added *Device Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section 1
- Updated R θ JA values: D = 86 to 119.9, all values in °C/W 4

Changes from Revision * (August 1998) to Revision A (August 2024) Page

- Deleted references to CD74ACT251 throughout the data sheet 1
- Added *Package Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section 1
- Added R θ JA value: D = 119.9, all values in °C/W 4

Changes from Revision A (May 2000) to Revision B (August 2024) Page

- Added *Package Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section 1

Changes from Revision C (June 2002) to Revision D (July 2024) Page

- Added *Device Information* table, *Pin Functions* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section 1
- Updated thermal values for R θ JA: D = 86 to 119.9, all values in °C/W 4

Changes from Revision C (June 2002) to Revision D (July 2024)	Page
---	------

- | | |
|--|---|
| • Added Device Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated R θ JA values: D = 86 to 119.9, all values in °C/W | 5 |
-



CD54AC08, CD74AC08

SCHS307D – JANUARY 2001 – REVISED AUGUST 2024

Changes from Revision C (June 2002) to Revision D (July 2024)	Page
---	------

- | | |
|---|---|
| • Added Package Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated R θ JA values: D = 86 to 119.9, all values in °C/W | 5 |
-



CD54ACT00, CD74ACT00

SCHS308C – JANUARY 2001 – REVISED AUGUST 2024

Changes from Revision B (June 2002) to Revision C (August 2024)	Page
---	------

- | | |
|--|---|
| • Added Device Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated R θ JA values: D = 86 to 119.9, all values in °C/W | 4 |
-



CD54ACT08, CD74ACT08

SCHS312C – JANUARY 2001 – REVISED AUGUST 2024

Changes from Revision B (June 2002) to Revision C (August 2024)	Page
---	------

- | | |
|--|---|
| • Added Device Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated R θ JA value: D = 86 to 119.9, all values in °C/W | 4 |
-



CD54ACT74, CD74ACT74

SCHS321A – DECEMBER 2002 – REVISED JULY 2024

Changes from Revision * (December 2002) to Revision A (July 2024)	Page
---	------

- | | |
|--|---|
| • Added Device Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated R θ JA values: D = 86 to 119.9, all values in °C/W | 4 |
-



CD74AC151

SCHS333A – MARCH 2003 – REVISED JULY 2024

Changes from Revision * (March 2003) to Revision A (July 2024)	Page
--	------

- | | |
|---|---|
| • Added Package Information table, Pin Functions table, ESD Ratings table, Thermal Information table, Device Functional Modes, Application and Implementation section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section | 1 |
| • Updated R θ JA values: D = 73 to 119.9, all values in °C/W | 5 |
-

Changes from Revision A (May 2003) to Revision B (July 2024) Page

- Added *Device Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section **1**
- Updated R θ JA values: D = 73 to 119.9, all values in °C/W..... **4**

Changes from Revision * (March 2003) to Revision A (August 2024) Page

- Added *Device Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section **1**
- Updated R θ JA values: D = 73 to 119.9, all values in °C/W..... **4**

Changes from Revision B (June 2003) to Revision C (August 2024) Page

- Added *Package Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section **1**
- Updated R θ JA values: D = 73 to 119.9, PW = 108 to 145.7, all values in °C/W..... **4**

Changes from Revision * (March 2003) to Revision A (August 2024) Page

- Added *Device Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section **1**
- Updated R θ JA values: D = 86 to 119.9, all values in °C/W..... **4**

Changes from Revision * (March 2003) to Revision A (August 2024) Page

- Added *Device Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section **1**
- Updated R θ JA values: D = 86 to 119.9, all values in °C/W..... **5**

The datasheet number will be changing.

Device Family	Change From:	Change To:
SNx4ACT74	SCAS520H	SCAS520I
SNx4AC74	SCAS521F	SCAS521G
SN5xACT00	SCAS523D	SCAS523E
SNx4AC00	SCAS524E	SCAS524F
SNx4ACT10	SCAS526C	SCAS526D
SNx4AC32	SCAS528D	SCAS528E

SNx4AC10	SCAS529D	SCAS529E
SN74ACT32	SCAS530C	SCAS530D
SNx4ACT11	SCAS531C	SCAS531D
SNx4AC11	SCAS532D	SCAS532E
SNx4AC86	SCAS533C	SCAS533D
SNx4ACT86	SCAS534C	SCAS534D
SNx4ACT08	SCAS535C	SCAS535D
SNx4AC08	SCAS536D	SCAS536E
SN74ACT10-Q1	SCAS784A	SCAS784B
SN74AC08-Q1	SCAS789A	SCAS789B
CDx4AC74	SCHS231D	SCHS231E
CD74AC251	SCHS246	SCHS246A
CDx4AC257, CDx4ACT257, CD74ACT258	SCHS248A	SCHS248B
CDx4AC00	SCHS303C	SCHS303D
CDx4AC02	SCHS304C	SCHS304D
CDx4AC08	SCHS307C	SCHS307D
CDx4ACT00	SCHS308B	SCHS308C
CDx4ACT08	SCHS312B	SCHS312C
CDx4ACT74	SCHS321	SCHS321A
CD74AC151	SCHS333	SCHS333A
CDx4AC153	SCHS334A	SCHS334B
CDx4ACT151	SCHS338	SCHS338A
CD74ACT157	SCHS340B	SCHS340C
CDx4ACT32	SCHS342	SCHS342A
CDx4AC32	SCHS343	SCHS343A

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/SN54ACT74>
<http://www.ti.com/product/SN54AC74>
<http://www.ti.com/product/SN54ACT00>
<http://www.ti.com/product/SN54AC00>
<http://www.ti.com/product/SN54ACT10>
<http://www.ti.com/product/SN54AC32>
<http://www.ti.com/product/SN54AC10>
<http://www.ti.com/product/SN74ACT32>
<http://www.ti.com/product/SN54ACT11>
<http://www.ti.com/product/SN54AC11>
<http://www.ti.com/product/SN54AC86>
<http://www.ti.com/product/SN54ACT86>
<http://www.ti.com/product/SN54ACT08>
<http://www.ti.com/product/SN54AC08>
<http://www.ti.com/product/SN74ACT10-Q1>
<http://www.ti.com/product/SN74AC08-Q1>
<http://www.ti.com/product/CD54AC74>
<http://www.ti.com/product/CD74AC251>
<http://www.ti.com/product/CD54AC257>
<http://www.ti.com/product/CD54AC00>
<http://www.ti.com/product/CD54AC02>
<http://www.ti.com/product/CD54AC08>
<http://www.ti.com/product/CD54ACT00>
<http://www.ti.com/product/CD54ACT08>
<http://www.ti.com/product/CD54ACT74>
<http://www.ti.com/product/CD74AC151>

<http://www.ti.com/product/CD54AC153>
<http://www.ti.com/product/CD54ACT151>
<http://www.ti.com/product/CD74ACT157>
<http://www.ti.com/product/CD54ACT32>
<http://www.ti.com/product/CD54AC32>

Reason for Change:

To accurately reflect device characteristics. The datasheet update is driven by change announced in PCN 20240628002.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.

Changes to product identification resulting from this PCN:

None.

Product Affected:

CD74AC00E	SN74ACT32DRE4	CD74AC08E	SN74ACT32PWR
CD74AC02E	SN74ACT74DR	CD74AC251M96	SN74ACT74DBR
CD74AC02E-NG	SN74ACT74NSR	CD74AC251M96E4	SN74ACT86PWR
CD74AC251M96G4	SN74ACT86DR	CD74ACT00M96	SN74ACT86PWRG4
CD74ACT32E	CD74AC153E	CD74ACT08M96	CD74AC00EE4
SN74AC08NSR	CD74ACT00E	SN74AC00DRE4	CD74AC257E
SN74AC08PWR	CD74ACT257M96	SN74AC08PWRG4	CD74ACT08E
SN74AC08QDRG4Q1	SN74AC11N	SN74AC11DBR	CD74ACT32E-NG
SN74AC08QPWRG4Q1	SN74AC74DR	SN74AC32DBR	SN74AC00NSR
SN74ACT00NE4	SN74AC86DRE4	SN74AC32N	SN74AC08DRE4
SN74ACT08N-NG	SN74ACT00DRG4	SN74AC86N	SN74AC08QPWRQ1
SN74ACT10PWR	SN74ACT00NSR	SN74ACT10DBR	SN74AC10DBR
SN74ACT32DBR	SN74ACT08DBR	SN74ACT86NSR	SN74AC10DR
SN74ACT32N	SN74ACT10QPWRG4Q1	CD74AC00E-NG	SN74AC74N
SN74ACT74DRG4	SN74ACT32DR	CD74AC00M96	SN74AC74PWRE4
CD74AC08M96G4	SN74ACT32N-NG	CD74AC02M96	SN74AC86DBR
CD74AC151M96G4	CD74AC151M96	CD74AC08M96	SN74AC86DR
CD74AC257M96	CD74AC153M96	CD74AC151E	SN74ACT00DBR
CD74AC32E	CD74AC32EE4	CD74AC32M96	SN74ACT11PWR
CD74AC74E-NG	CD74ACT257E	CD74AC74M96	SN74ACT74N
CD74ACT00M96E4	CD74ACT32M96	CD74AC74M96E4	SN74ACT74NE4
CD74ACT157E	CD74ACT74E	CD74AC74M96G4	SN74ACT86DBR
CD74ACT157PWR	SN74AC00DR	CD74ACT151M96	CD74AC32M96E4
CD74ACT257EE4	SN74AC00N	CD74ACT157M96	CD74AC74E
SN74AC08DR	SN74AC00NE4	SN74AC00PWR	CD74ACT74M96
SN74AC10PWR	SN74AC10N	SN74AC08N	SN74AC08DBR
SN74AC11DR	SN74AC32PWR	SN74AC11DRE4	SN74AC10NSR
SN74AC32DR	SN74AC86NSR	SN74AC74PWR	SN74AC11PWR
SN74AC74NE4	SN74AC86PWR	SN74AC74PWRG4	SN74AC32NSR
SN74AC74NSR	SN74ACT08DR	SN74ACT00DR	SN74AC74DBR
SN74ACT08PWR	SN74ACT08DRG3	SN74ACT00DRE4	SN74ACT00N

SN74ACT08PWRG4	SN74ACT11DRG4	SN74ACT00N-NG	SN74ACT08DRG4
SN74ACT10DR	SN74ACT11N	SN74ACT00PWR	SN74ACT08N
SN74ACT10DRE4	SN74ACT74PWR	SN74ACT08NSR	SN74ACT11DR
SN74ACT10N	SN74ACT86N	SN74ACT32NSR	SN74ACT74PWRE4
SN74ACT11DBR			

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI’s products are provided subject to TI’s Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI’s provision of these resources does not expand or otherwise alter TI’s applicable warranties or warranty disclaimers for TI products.