



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**Notification# 20240502010.0**

**Datasheet for SNx4AHC138, SNx4AHCT138, SNx4AHC157, SNx4AHCT157,  
SN74AHC595, SN74AHCT594, SNx4AHC594, and SN74AHC595-Q1  
Information Only**

**Date:** May 03, 2024

**To:** MOUSER PCN

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team.

Sincerely,

Change Management Team  
SC Business Services

**20240502010.0**  
**Information Only Datasheet**  
**Attachments**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

| <b>DEVICE</b>    | <b>CUSTOMER PART NUMBER</b> |
|------------------|-----------------------------|
| SN74AHC138PWR    | NULL                        |
| SN74AHC138PWRE4  | NULL                        |
| SN74AHC157PWR    | NULL                        |
| SN74AHC594PWR    | NULL                        |
| SN74AHC594PWRG4  | NULL                        |
| SN74AHC595PWR    | NULL                        |
| SN74AHC595QPWRQ1 | NULL                        |
| SN74AHCT138PWR   | NULL                        |
| SN74AHCT138PWRG4 | NULL                        |
| SN74AHCT157PWR   | NULL                        |
| SN74AHCT594PWR   | NULL                        |
| SN74AHCT595PWR   | NULL                        |

Technical details of this Product Change follow on the next page(s).

|                          |  |                  |                  |
|--------------------------|--|------------------|------------------|
| <b>PCN Number:</b>       | 20240502010.0  | <b>PCN Date:</b> | May 03, 2024     |
| <b>Title:</b>            | Datasheet for SNx4AHC138, SNx4AHCT138, SNx4AHC157, SNx4AHCT157, SN74AHC595, SN74AHCT594, SNx4AHC594, and SN74AHC595-Q1 |                  |                  |
| <b>Customer Contact:</b> | Change Management team   | <b>Dept:</b>     | Quality Services |
| <b>Change Type:</b>      | 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.



**SN54AHC138, SN74AHC138**

SCLS258M – DECEMBER 1995 – REVISED APRIL 2024

#### Changes from Revision L (July 2003) to Revision M (April 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
- Removed references to machine model..... 1
- Updated thermal values for PW package from RθJA = 108 to 135.9, all values in °C/W ..... 6



**SN54AHCT138, SN74AHCT138**

SCLS266N – DECEMBER 1995 – REVISED APRIL 2024

#### Changes from Revision M (July 2003) to Revision N (April 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
- Deleted references to machine model..... 1
- Updated RθJA value: PW = 108 to 135.9, all values in °C/W ..... 7



**SN74AHC157, SN54AHC157**

SCLS345K – MAY 1996 – REVISED APRIL 2024

#### Changes from Revision J (June 2013) to Revision K (April 2024) Page

- Added *Device Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Typical Characteristics*, *Device Functional Modes*, Application and Implementation section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section ..... 1
- Changed I<sub>OH</sub> maximums from -50 mA to -0.05 μA ..... 5
- Changed mA (milliamps) to μA (microamps) for I<sub>OH</sub> and I<sub>OL</sub> on *Recommended Operating Conditions* table.... 5
- Changed I<sub>OL</sub> maximums from 50 mA to 0.05 μA ..... 5
- Updated thermal values for PW package from RθJA = 108 to 135.9, all values in °C/W..... 6



**SN54AHCT157, SN74AHCT157**

SCLS347L – MAY 1996 – REVISED APRIL 2024

#### Changes from Revision K (July 2003) to Revision L (April 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 PW package from RθJA = 108 to 135.9, all values in °C/W ..... 4

| Changes from Revision L (March 2024) to Revision M (April 2024)  | Page |
|--|------|
| • Updated thermal values for PW package from R $\theta$ JA = 106.1 to 135.9, R $\theta$ JC(top) = 40.8 to 70.3, R $\theta$ JB = 51.1 to 81.3, $\Psi$ JT = 3.8 to 22.5, $\Psi$ JB = 50.6 to 80.8, all values in °C/W..... | 6    |
| • Added <i>Typical Characteristics</i> .....   | 12   |
| • Updated <i>Layout Example</i> .....  | 18   |

| Changes from Revision I (December 2014) to Revision J (April 2024)  | Page |
|---|------|
| • Deleted references to machine model throughout the data sheet and updated structural layout of data sheet to current standard.....  | 1    |
| • Updated R $\theta$ JA values: DB = 97.5 to 129.6, PW = 105.7 to 135.9; Updated DB and PW packages for R $\theta$ JC(top), R $\theta$ JB, $\Psi$ JT, $\Psi$ JB, and R $\theta$ JC(bot), all values in °C/W ..... | 5    |
| • Updated layout image .....  | 13   |

| Changes from Revision G (July 2014) to Revision H (April 2024)  | Page |
|---|------|
| • Added package size to <i>Device Information</i> table, removed references to machine model, and updated layout structure to meet current data sheet standards .....   | 1    |
| • Updated thermal values for PW package from R $\theta$ JA = 105.7 to 135.9, R $\theta$ JC(top) = 40.4 to 70.3, R $\theta$ JB = 50.7 to 81.3, $\Psi$ JT = 3.7 to 22.5 $\Psi$ JB = 50.1 to 80.8, all values in °C/W..... | 5    |

| Changes from Revision D (March 2024) to Revision E (April 2024)                                     | Page |
|---|------|
| • Updated thermal values for PW package from R $\theta$ JA = 108 to 135.9, all values in °C/W ..... | 4    |

The datasheet number will be changing.

| Device Family | Change From: | Change To:      |
|---------------|--------------|-----------------|
| SNx4AHC138    | SCLS258L     | <b>SCLS258M</b> |
| SNx4AHCT138   | SCLS266M     | <b>SCLS266N</b> |
| SNx4AHC157    | SCLS345J     | <b>SCLS345K</b> |
| SNx4AHCT157   | SCLS347K     | <b>SCLS347L</b> |
| SN74AHC595    | SCLS373L     | <b>SCLS373M</b> |
| SN74AHCT594   | SCLS417I     | <b>SCLS417J</b> |
| SNx4AHC594    | SCLS423G     | <b>SCLS423H</b> |
| SN74AHC595-Q1 | SCLS537D     | <b>SCLS537E</b> |

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/SN54AHC138>  
<http://www.ti.com/product/SN54AHCT138>  
<http://www.ti.com/product/SN74AHC157>  
<http://www.ti.com/product/SN54AHCT157>

<http://www.ti.com/product/SN74AHC595>  
<http://www.ti.com/product/SN74AHCT594>  
<http://www.ti.com/product/SN54AHC594>  
<http://www.ti.com/product/SN74AHC595-Q1>

**Reason for Change:**

To accurately reflect device characteristics.

**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:**

|                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|
| SN74AHC138PWR    | SN74AHC138PWRE4  | SN74AHC138PWRG4  | SN74AHC157PWR    |
| SN74AHC157PWGR3  | SN74AHC594PWR    | SN74AHC594PWGR4  | SN74AHC595PWR    |
| SN74AHC595PWGR4  | SN74AHC595QPWRQ1 | SN74AHCT138PWR   | SN74AHCT138PWGR4 |
| SN74AHCT157PWR   | SN74AHCT594PWR   | SN74AHCT594PWGR4 | SN74AHCT595PWR   |
| SN74AHCT595PWGR3 |                  |                  |                  |

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

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