

# ÉlanSC520 Microcontroller

## Datasheet

This document amends the *ÉlanSC520 Microcontroller Datasheet*, order #22003B.

### DOCUMENTATION DEFECTS AND CORRECTIONS

The following corrections apply:

- On page 2 of the datasheet, add a new temperature range:

I = Industrial ( $T_A = -40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ )  
where:  $T_A$  = ambient temperature

Also on page 2, add a new row to the Valid Combinations table. The complete revised table is reproduced here:

Valid Combinations	
ÉlanSC520-100 ÉlanSC520-133	AC
ÉlanSC520-100	AI

- On page 48, in the heading “Operating Ranges At Commercial Temperatures,” change “Commercial” to “Commercial and Industrial.”

Also on page 48, add a new operating range parameter,  $T_{\text{AMBIENT}}$ , for industrial ambient temperature. Minimum value:  $-40^{\circ}\text{C}$ . Maximum value:  $+85^{\circ}\text{C}$

- On page 50, in the heading “DC Characteristics over Commercial Operating Ranges,” change “Commercial” to “Commercial and Industrial.”
- On page 56, in the section titled “Thermal Characteristics,” change “The ÉlanSC520 microcontroller is...” to “ÉlanSC520 microcontroller commercial temperature devices are...” in the first sentence.
- On page 57, replace Table 15 with the updated version reproduced below. This new table adds a new row for  $T_{\text{CASE}} = 100^{\circ}\text{C}$ .
- On page 59, in the heading “Switching Characteristics over Commercial Operating Ranges,” change “Commercial” to “Commercial and Industrial.”

**Table 15. Maximum  $T_A$  for Plastic BGA Package with 6-Layer Board<sup>1</sup>**

$T_{\text{CASE}}$	CPU Clock Rate	Airflow (Linear Feet Per Minute)				
		0	200	400	600	800
85°C	133 MHz	67.3°C	69.8°C	71.3°C	72.2°C	72.7°C
	100 MHz	70.1°C	72.2°C	73.5°C	74.3°C	74.7°C
100°C <sup>2</sup>	100 MHz	85.1°C	87.2°C	88.5°C	89.3°C	89.7°C

**Notes:**

1. The board type is described in the JEDEC standards document entitled Thermal Test Chip Guideline (Wire Bond Type Chip) at [www.jedec.org](http://www.jedec.org). On the home page click on the link Free Standards and Docs, and then click on the document link JESD51-4 under JEDEC PUBLICATIONS.
2.  $T_{\text{CASE}} = 100^{\circ}\text{C}$  data is for industrial temperature devices only.

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