

MicroStar BGA Discontinued and Redesigned



ABSTRACT

This document should be used in conjunction with the device data sheet and describes the updated package designator for the indicated devices.

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1 Package Redesign Details

Explanation

The devices in the MicroStar BGA™ packaging were redesigned using a laminate nFBGA package. The nFBGA package offers data sheet-equivalent electrical performance and data sheet-equivalent or better thermal performance. It provides the same X and Y dimensions as MicroStar BGA, and provides pin-to-pin and footprint compatibility. The nFBGA PCB land pattern and stencil recommendations have been updated to achieve better soldering results after extensive testing and evaluation. For more details, please refer to this [nFBGA Package Application Report](#).

When referencing the device data sheet, use the new package designator in place of the discontinued package designator throughout the document.

The orderable addendum at the end of the device data sheet will reflect the new package designator.

See the following page or the end of the device data sheet for the updated nFBGA package drawing.

Table 1-1. Package Designator

Old Package Designator	New Package Designator
ZGU	ZWS
ZRC	NMA
ZQZ	ZBH

Reason for Discontinuance

Due to an equipment End-Of-Life notice from our substrate supplier, we are phasing out certain MicroStar BGA and MicroStar Junior™ BGA packaging devices and offering a Last Time Buy.

These devices have now been converted to an nFBGA package.

Devices Affected

The following table describes the devices affected, the old and new package designators, and references to the device data sheet.

Table 1-2. Devices and Nomenclature

Device	Discontinued MicroStar BGA Device	Redesigned Laminate nFBGA Device	Device Data Sheet
TPS658643	TPS658643 ZGUR	TPS658643 ZWSR	SLVSB68, SLVSB87
TPS65951x	TPS65951A1 ZGUR	TPS65951A1 ZWSR	SWCS053
TPS65921x	TPS65921B1 ZQZR	TPS65921B1 ZBHR	SWCS048
TPS65921x	TPS65921B ZQZR	TPS65921B ZBHR	SWCS048
TWL6040x	TWL6040A3 ZQZR	TWL6040A3 ZBHR	SWCS052, SWCS050
TPS65911x	TPS659110A2 ZRCR	TPS659110A2 NMAR	SWCS049
TPS65911x	TPS6591104DA2 ZRC	TPS6591104DA2 NMA	SWCS049
TPS65911x	TPS659112A2 ZRCR	TPS659112A2 NMAR	SWCS049
TPS65911x	TPS6591133A2 ZRC	TPS6591133A2 NMA	SWCS049
TPS65911x	TPS659114A2 ZRCR	TPS659114A2 NMAR	SWCS049
TPS65911x	TPS65911AA2 ZRCR	TPS65911AA2 NMAR	SWCS049
TPS65911x	TPS65911AA2 ZRCT	TPS65911AA2 NMAT	SWCS049

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