

MPC5643L 257 MAPBGA MIDR1 Field PKG Value

by: Automotive and Industrial Solutions Group

1 Introduction

The MPC5643L microcontroller is based on the Power Architecture® and targets electric power steering, chassis, and safety applications that require a high safety integrity level. The device's host processor core is a member of the e200z4 Power Architecture® compatible core family. For further information refer to the MPC5643L Microcontroller Reference Manual (RM), and Data Sheet (DS).

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2 257 MAPBGA MIDR1 Field PKG Value

BGA samples with trace codes before WW16 2013 may contain incorrect data for the package ID. Refer to Figure 1 below for a description of the trace code marking on the part.

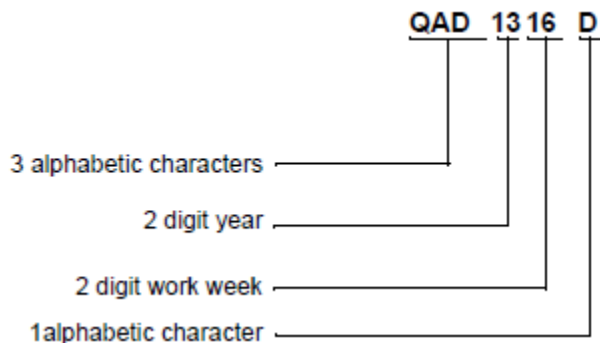


Figure 1 Trace Code Structure

Early BGA257 samples have the PKG field value of 0b10000 instead of the value shown below as documented in the Reference Manual.

MCU ID Register 1 (MIDR1) - Field PKG:

Package Settings - Can be read by software to determine the package type that is used for the particular device:

0b01101: 144-pin QFP

0b01000: 257-pin BGA

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