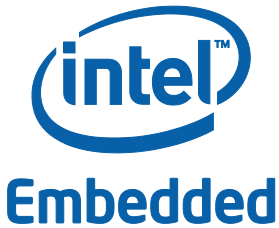

Intel® Atom™ Processor Z650

Specification Update Addendum

April 2011

Document Number: 325382-001

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Revision History

Document Number	Revision Number	Description	Revision Date
325382	001	Initial release	April 2011

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Introduction

This document is an addendum to the specifications contained in the document listed in the following Affected Documents table.

This document was created for the Intel® Atom™ Processor Z650, and is for the embedded platform formerly known as 'Oak Trail'. The core of this embedded platform comprises two chips: the Intel Atom Z6xx processor series (Z650 at a processor speed of 1.2 GHz or Z670 at a processor speed of 1.5 GHz), and the Intel® SM35 Express Chipset platform controller hub (PCH).

Affected Documents

Document Title	Document Number/ Classification
Intel® Atom™ Processor Z6xx Series Processor – Sightings Report (SR) / Specification Update	454504; Intel classified†

† Please see your Intel representative.

Details

As of April 2011, the Intel Atom Processor Z650 stepping version in production is **C0**.

Table 1. Intel® Atom™ Z650 Processor Identification

Product Name	Product Number	# Cores	Clock Speed (GHz)	Graphics Speed	S-Spec	Product Stepping	Qual Temp[1]	MM #	QDF	Package[3]
Intel® Atom™ processor Z650[2]	AY80609007296AA	1	1.2	400 MHz maximum	SLC2Q	C0	Comm.	910072	Q5BD	518-ball FCMB 13.8 mm x 13.8 mm x 1.10 mm

Notes:

1. Comm. = Commercial Temperature (CT) - 0°C to 70°C ambient.
2. The core of this embedded platform comprises the Intel Atom processor Z6xx series and Intel SM35 Express Chipset.
3. Multiple third-party devices such as a Power Management IC (PMIC) and Embedded Controller (EC) are required to design an embedded-tablet, digital signage, portable medical and retail, or other Z670/Z650-platform-based system.

Platform and Chipset Development Kit Product Code

- For ordering purposes, the product code for the Intel Atom processor Z650 paired with the Intel SM35 Express Chipset Development Kit is **EMBLNCWPTABDVK**

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