Advance Information

MPC8245TZUPNS/D
Rev. 0, 3/2002

MPC8245 Part Number Specification for the XPC8245TZUnnnx Series

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Motorola Part Numbers Affected:

XPC8245TZU266B
XPC8245TZU300B
XPC8245TZU333B
XPC8245TZU350B

This document describes part-number-specific changes to recommended operating conditions and revised electrical specifications, as applicable, from those described in the general *MPC8245 Integrated Processor Hardware Specifications* (order # MPC8245EC/D).

Specifications provided in this document supersede those in the *MPC8245 Integrated Processor Hardware Specifications*, Rev.0.5 or later, for the part numbers listed in Table A only. Specifications not addressed herein are unchanged. Because this document is frequently updated, refer to http://www.motorola.com/semiconductors or to your Motorola sales office for the latest version.

Note that headings and table numbers in this document are not consecutively numbered. They are intended to correspond to the heading or table affected in the general hardware specification.

Part numbers addressed in this document are listed in Table A. For more detailed ordering information see Section 1.9, “Ordering Information.”

Table A. Part Numbers Addressed by this Data Sheet

Motorola Part Number	Operating Conditions			Significant Differences from Hardware Specification
	CPU Frequency	V_{DD}	T_J (°C)	
XPC8245TZU266B	266 MHz	1.8/2.0 ± 100 mV	-40 to 105	Extended Temperature range for additional part offering
XPC8245TZU300B	300 MHz	1.8/2.0 ± 100 mV	-40 to 105	Extended Temperature range for additional part offering
XPC8245TZU333B	333 MHz	2.0 ± 100 mV	-40 to 105	Extended Temperature range for additional part offering
XPC8245TZU350B	350 MHz	2.0 ± 100 mV	-40 to 105	Extended Temperature range for additional part offering

Note: The X prefix in a Motorola part number designates a “Pilot Production Prototype” as defined by Motorola SOP 3-13. These are from a limited production volume of prototypes manufactured, tested, and Q.A. inspected on a qualified technology to simulate normal production. These parts have only preliminary reliability and characterization data. Before pilot production prototypes may be shipped, written authorization from the customer must be on file in the applicable sales office acknowledging the qualification status and the fact that product changes may still occur while shipping pilot production prototypes.

1.4.1.2 DC Electrical Characteristics

Table 2 provides the recommended operating conditions for the MPC8245 part numbers described herein.

Table 2. Recommended Operating Conditions

Characteristic	Symbol	Recommended Value	Unit
Die-junction temperature	T_j	-40 to 105	°C

Note: These are the recommended and tested operating conditions. Proper device operation outside of these conditions is not guaranteed.

Please consult the *MPC8245 Integrated Processor Hardware Specifications* document for more details concerning the part's specifications.

1.9 Ordering Information

This section provides the part numbering nomenclature for the MPC8245. Note that the individual part numbers correspond to a maximum processor core frequency. For available frequencies, contact your local Motorola sales office.

Figure 33 provides the Motorola part numbering nomenclature for the MPC8245. In addition to the processor frequency, the part numbering scheme also consists of an application modifier. The application modifier may specify special application conditions such as specific temperature or voltage ranges. Each part number also contains a revision code. This refers to the die mask revision number and is specified in the part numbering scheme for identification purposes only.

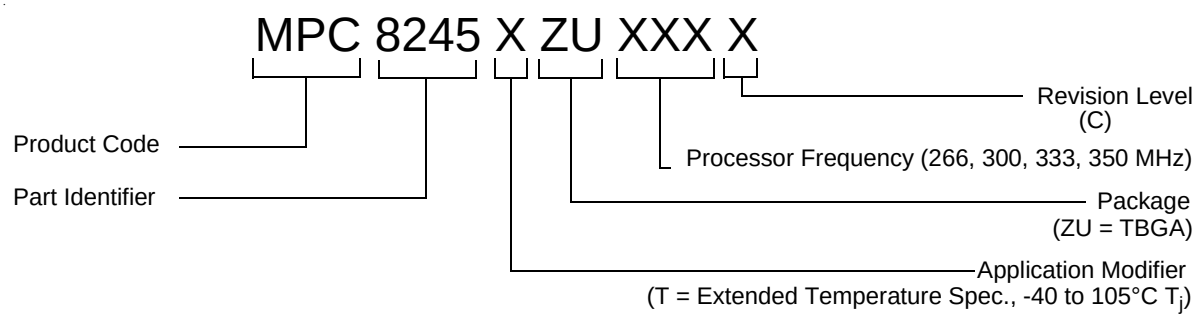

Figure 33. Motorola Part Number Key

HOW TO REACH US:

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Motorola Literature Distribution;
P.O. Box 5405, Denver, Colorado 80217
1-303-675-2140 or 1-800-441-2447

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Motorola Japan Ltd.; SPS, Technical Information Center,
3-20-1, Minami-Azabu Minato-ku, Tokyo 106-8573 Japan
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Motorola Semiconductors H.K. Ltd.; Silicon Harbour Centre, 2 Dai King Street, Tai Po Industrial Estate,
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