

Advance Information

MPC7410TRXLEPNS/D
Rev. 0, 5/2002

MPC7410 Part Number
Specification for the
MPC7410TRXnnnLE Series



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Motorola Part Numbers Affected:

*MPC7410TRX500LE
MPC7410TRX450LE
MPC7410TRX400LE*

This document describes part-number-specific changes to recommended operating conditions and revised electrical specifications, as applicable, from those described in the *MPC7410 RISC Microprocessor Hardware Specifications* (Order No. MPC7410EC/D).

Specifications provided in this document supersede those in the *MPC7410 RISC Microprocessor Hardware Specifications*, Rev. 1 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 1.10, "Ordering Information."

Table A. Part Numbers Addressed by this Data Sheet

Motorola Part Number	Operating Conditions				Significant Differences from Hardware Specification
	CPU Frequency (MHz)	V _{DD}	T _J (°C)	OV _{DD} (V)	
MPC7410TRX500LE	500	1.8 V ±100 mV	-40 to 105	1.8/2.5/3.3	Extended temperature range. For all DC/AC specifications not mentioned in this document, please refer to the MPC7410RX500LE specifications in the <i>MPC7410 RISC Microprocessor Hardware Specifications</i> .
MPC7410TRX450LE	450	1.8 V ±100 mV	-40 to 105	1.8/2.5/3.3	Extended temperature range. For all DC/AC specifications not mentioned in this document, please refer to the MPC7410RX450LE specifications in the <i>MPC7410 RISC Microprocessor Hardware Specifications</i> .
MPC7410TRX400LE	400	1.8 V ±100 mV	-40 to 105	1.8/2.5/3.3	Extended temperature range. For all DC/AC specifications not mentioned in this document, please refer to the MPC7410RX400LE specifications in the <i>MPC7410 RISC Microprocessor Hardware Specifications</i> .

1.4.1 DC Electrical Characteristics

Table 3 provides the recommended operating conditions for the MPC7410 part numbers described herein.

Table 3. Recommended Operating Conditions

Characteristic	Symbol	Recommended Value	Unit	Notes
Die-junction temperature	T _J	-40 to 105	°C	

Note: See *MPC7410 RISC Microprocessor Hardware Specifications*.

1.9 Document Revision History

Table 16 provides a revision history for this part number specification.

Table 16. Document Revision History

Document Revision	Substantive Chagnes(s)
0	Initial release. Note that this part number specification replaces the MPC7410RXnnnTE part number specification (Order No. MPC7410RXnnnTE/D).

1.10 Ordering Information

1.10.1 Part Numbers Addressed by this Specification

Table 17 provides the ordering information for the MPC7410 part described in this document.

Table 17. Part Marking Nomenclature

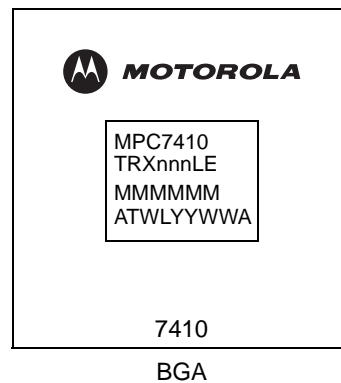
Product Code	Part Identifier	Process Descriptor	Package	Processor Frequency ¹	Application Modifier	Revision Level
MPC	7410	T: -40 to 105°C	RX = CBGA	400 450 500	L: 1.8 V ±100 mV	E: 1.4; PVR = 800C 1104

Note:

1. Processor core frequencies supported by parts addressed by this specification only. Parts addressed by other specifications may support other maximum core frequencies.

1.10.2 Part Marking

Parts are marked as the example shown in Figure 26.



Notes:

- nnn is the speed grade of the part.
- MMMMMM is the 6-digit mask number.
- ATWLYYWWA is the traceability code.
- CCCCC is the country of assembly. This space is left blank if parts are assembled in the United States.

Figure 26. Part Marking for BGA Device

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