

# PowerPC™

## Advance Information

### PowerPC 603e™ RISC Microprocessor Family: PID7t-603e Hardware Specifications

The PowerPC 603e microprocessor is an implementation of the PowerPC™ family of reduced instruction set computing (RISC) microprocessors. In this document, the term '603e' is used as an abbreviation for 'PowerPC 603e microprocessor'. The PowerPC 603e microprocessors are available from Motorola as MPC603e and from IBM as PPC603e.

The 603e is implemented in several semiconductor fabrication processes. Different processes may require different supply voltages and may have other electrical differences but will have the same functionality. As a technical designator to distinguish between 603e implementations in various processes, a prefix composed of the processor version register (PVR) value and a process identifier (PID) is assigned to the various implementations as shown below:

**PowerPC 603e Microprocessors from Motorola**

Technical Designator	Process	Core Voltage	I/O Voltage	5-Volt Tolerant	Part Number
PID6-603e	0.5 $\mu$ m CMOS, 4LM	3.3 V	3.3 V	Yes	MPC603e
PID7v-603e	0.35 $\mu$ m CMOS, 5LM	2.5 V	3.3 V	Yes	MPC603p
PID7t-603e	0.25 $\mu$ m CMOS, 5LM	2.5 V	3.3 V	Yes	MPC603r

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