



# **TOSHIBA**

## Toshiba High Performance Microprocessor User Manual

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## Toshiba Develops High Performance Microprocessor Core

*- 'MeP-h1' is the World's First 1GHz Configurable Processor -*

Toshiba Corporation has announced that it has developed a new high-end processor



core,  
MeP-h1,  
the  
first  
configurable  
microprocessor to achieve a 1GHz clock speed. The MeP-h1  
is  
based on Toshiba's "Media embedded Processor"  
(MeP)  
architecture for digital consumer and other high  
performance  
SoCs. It gives designers the flexibility to customize  
processors at  
the design stage, including the ability to change  
processor  
configurations and add custom instructions to satisfy  
application  
requirements. **ManualsLib.com**  
The performance of the new core was boosted by  
increasing the  
number of instruction execution pipeline stages to nine, from  
five in  
Toshiba's previous processor core. The new core is also  
optimized  
for design of high-performance customized  
processors by

integration of a reorder buffer circuit that manages and shortens

waiting cycles for user extension instructions.

The present

implementation of the core was manufactured with 65nanometer

(nm) process technology, and that too contributed to achieving the

1GHz clock speed. The new configurable processor core is

designed with register transfer level description (RTL) and can be

manufactured with other process technology, including 90nm

technology.

Development background:

The market for digital equipment supporting images, audio and

communications

is

growing

fast.

However,

the

required

performance and type of data processing in system LSI differs by

application, and the overall volume of handled data is rapidly increasing. As a result, there is growing demand for customizable

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## Summary of Contents for Toshiba High Performance Microprocessor

[Page 1](#) Toshiba Develops High Performance Microprocessor Core -'MeP-h1'is the World's First 1GHz Configurable Processor- Toshiba Corporation has announced that it has developed a new high-end processor core, MeP-h1, first configurable microprocessor to achieve a 1GHz clock speed. The MeP-h1 is based on Toshiba's "Media embedded Processor" (MeP) architecture for digital consumer and other high performance SoCs.

[Page 2](#) Toshiba uses MeP in its own products and also licenses the technology to third parties that require flexibility in circuit design. Users who want to apply MeP to their own products can download MeP design data and related information from Toshiba's dedicated...

[Page 3](#) The company's integration of these wide-ranging capabilities assures its position as an innovator in advanced components, products and systems. Toshiba has more than 161,000 employees worldwide and annual sales of over US\$53 billion (FY2003).

[Page 4](#) Contact details for editorial enquiries: Angela Fehrenbach, Toshiba Electronics Europe  
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