



Intel® Pentium® M Processor 745

2M Cache, 1.80 GHz, 400 MHz FSB

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Product Collection	Legacy Intel® Pentium® Processor
Code Name	Products formerly Dothan
Vertical Segment	Mobile
Processor Number	745
Status	Discontinued
Launch Date ?	Q2'04
Lithography ?	90 nm
Recommended Customer Price ?	N/A

Performance

# of Cores ?	1
Processor Base Frequency ?	1.80 GHz
Cache ?	2 MB L2
Bus Speed ?	400 MHz FSB
FSB Parity ?	No
TDP ?	7.5 W
Scenario Design Power (SDP) ?	0 W
VID Voltage Range ?	1.276V-1.34V

Supplemental Information

Embedded Options Available ?	Yes
Datasheet	View now

Package Specifications

Sockets Supported ?	H-PBGA479, PPGA478
T _{JUNCTION} ?	100°C
Package Size	35mm x 35mm
Processing Die Size	87 mm ²
# of Processing Die Transistors	144 million

Advanced Technologies

Intel® Turbo Boost Technology ?	No
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Intel® Hyper-Threading Technology ‡ ?	No
Intel® Virtualization Technology (VT-x) ‡ ?	No
Intel® 64 ‡ ?	No
Instruction Set ?	32-bit
Idle States ?	No
Enhanced Intel SpeedStep® Technology ?	Yes
Intel® Demand Based Switching ?	No

Security & Reliability

Intel® Trusted Execution Technology ‡ ?	No
Execute Disable Bit ‡ ?	Yes

More support options for Intel® Pentium® M Processor 745 (2M Cache, 1.80 GHz, 400 MHz FSB)



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Refer to Datasheet for formal definitions of product properties and features.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

See <http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading> for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

For benchmarking data see <http://www.intel.com/performance>.

processor families. See <http://www.intel.com/content/www/us/en/processors/processor-numbers.html> for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.



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