



List of Intel® vPro™ Processors

Intel® Core™ vPro™ Processors

2nd Generation Intel® Core™ vPro™ Processors

Intel® Xeon® Processor E3 Family Featuring Intel® vPro™ Technology

April, 2011

Technical Note

Intel® vPro™ Technology

Intel Corporation

Overview

Choosing the right processor is an important step in selecting a PC or workstation. This technical note lists all the Intel® Core™ vPro™ processors, 2nd generation Intel® Core™ vPro™ processors, and the Intel® Xeon® processors featuring Intel® vPro™ Technology. This document also identifies which processors support the KVM Remote Control feature.

Note

The system manufacturer may choose to disable the KVM remote control feature on some models. Check with your system manufacturer to verify that KVM remote control is supported.

About KVM Remote Control

The KVM remote control feature requires the following components on your PC or workstation:

- Intel® Active Management Technology 6.0 (or later) with the KVM Remote Control feature activated
- Intel® Core™ vPro™ processor with integrated Intel® HD Graphics, or 2nd generation Intel Core vPro processor with Intel HD2000/HD3000 processor graphics, or for workstations, an Intel® Xeon® processor featuring Intel® vPro™ Technology with Intel® HD Graphics P3000 or Intel® HD Graphics 2000.
- Intel® vPro™ Technology based PC or workstation with a compatible network adapter and other required components

If your PC or workstation has an add-in graphics card along with the integrated graphics in the processor, then your OEM will need to provide a method to switch the graphics to the integrated graphics when you want to use the KVM Remote Control feature.

You will need to do some simple setup and configuration of your Intel AMT firmware to turn on the KVM Remote Control feature. For help getting started with activating Intel vPro technology, see:

<http://www.intel.com/go/vpro101>.

If you are building your own PC or workstation, we recommend selecting a “boxed” processor from Intel (available at many retail outlets and

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distributors). If you are ordering a PC or workstation from an original equipment manufacturer (OEM), choose an “OEM” processor. The boxed processors from Intel are matched with the recommended heatsink and come with important documentation and a valuable Intel warranty. Refer to ark.intel.com to determine if a particular processor is available in a retail boxed package.

For embedded applications, Intel offers special versions of the Intel Core vPro processors and 2nd generation Intel Core vPro processors. Contact the board or system manufacturer for compatible Intel processors. See: <http://edc.intel.com/Platforms/>

Required Intel® Chipset

For desktop or mobile PCs with Intel vPro Technology: the chipset on the board must be an Intel Q57, QS57, or QM57 Express Chipset for the Intel® Core™ vPro™ processors, or Intel Q67, QS67, or QM67 Express Chipset for the 2nd Generation Intel® Core™ vPro processor. Choose a mobile processor for a laptop or notebook PC, and a desktop processor for a desktop, tower, or similar form factor PC.

For 2011 Entry Workstations featuring Intel® vPro™ Technology: the chipset on the board must be an Intel C206 for the Intel® Xeon® processor E3 family.

All other systems: for servers and workstations with the Intel® 3450 chipset, this configuration supports the Intel Core vPro i5 processors with Intel HD Graphics and the KVM Remote Control feature. For KVM Remote Control support with the Intel® 3450 Chipset, choose a first generation Intel Core i5 vPro desktop processor with KVM Remote Control support. For servers with the Intel® C206 Chipset, this configuration supports Intel® Xeon® processors in the E3 Family and certain 2nd generation Intel® Core™ vPro™ processors listed in the Server Products table. For KVM Remote Control support with the Intel® C206 Chipset, choose an Intel Xeon processor with KVM Remote Control support.

Useful Resources:

How to identify a boxed vs. and OEM processor (boxed processors may be purchased by users at retail stores)(<http://www.intel.com/support/processors/sb/CS-030339.htm>)

Intel® Processor Identification Utility - Windows Version*
(http://downloadcenter.intel.com/Detail_Desc.aspx?ProductID=3155&DownloadID=7838&lang=eng&iid=dc_rss)

Intel® vPro™ Expert Center
(<http://communities.intel.com/community/openportit/vproexpert>)

Intel® Processors and Boards Compatibility Tool
(<http://processormatch.intel.com/COMPDB/default.aspx>)

Where to Buy Boxed Intel® Desktop Processors
(<http://www.intel.com/buy/desktop/boxed-processor/embedded.htm>)

To find the Intel® Order Codes for boxed processors, when available (select desktop or mobile product, Intel Core i5 or Intel Core i7, the processor model, then choose ORDERING / SPECS / STEPPINGS from the left navigation pane) (<http://ark.intel.com/Default.aspx>)

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Intel® vPro™ Technology: Activation Made Simple
(<http://www.intel.com/go/vpro101>)

For information on the processor numbering and letter suffix scheme
(http://www.intel.com/products/processor_number/about/core.htm)

Desktop Products

Processor Family	Model Number**	KVM Remote Control Supported?
Intel® Core™ i5 Processor	i5-2390T	Yes
	i5-2400S	Yes
	i5-2400	Yes
	i5-2500	Yes
	i5-2500S	Yes
	i5-2500T	Yes
	i5-650	Yes
	i5-660	Yes
	i5-670	Yes
	i5-680	Yes
Intel® Core™ i7 Processor	i7-2600S	Yes
	i7-2600	Yes
	i7-860	No
	i7-860S	No
	i7-870	No
	i7-870S	No
	i7-880	No

** Second Generation Intel Core i5 and i7 vPro processors have model numbers in the 2000 to 2999 range. Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. Go to: http://www.intel.com/products/processor_number

Mobile Products

Processor Family	Model Number	KVM Remote Control Supported?
Intel® Core™ i5 Mobile Processor	i5-2520M	Yes
	i5-2530UM	Yes
	i5-2540M	Yes
	i5-520M	Yes
	i5-520M	Yes
	i5-520UM	Yes
	i5-540M	Yes
	i5-540M	Yes
	i5-540UM	Yes
	i5-560M	Yes
	i5-580M	Yes
Intel® Core™ i7 Mobile Processor	i7-2610UM	Yes
	i7-2620LM	Yes
	i7-2620M	Yes
	i7-2630UM	Yes
	i7-2640LM	Yes
	i7-2720QM	Yes
	i7-2820QM	Yes
	i7-2920XM	Yes
	i7-620LM	Yes
	i7-620M	Yes
	i7-620UM	Yes
	i7-640LM	Yes
	i7-640M	Yes

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Processor Family	Model Number	KVM Remote Control Supported?
Intel® Core™ i7 Mobile Processor (Continued)	i7-640UM	Yes
	i7-660LM	Yes
	i7-660UM	Yes
	i7-680UM	Yes
	i7-720QM	No
	i7-740QM	No
	i7-820QM	No
	i7-840QM	No

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Server Products

(Includes Intel Xeon Processors for Workstations)

Processor Family	Model Number	KVM Remote Control Supported?
Intel® Xeon® Processor	E3-1220	No
	E3-1220L	No
	E3-1225	Yes
	E3-1230	No
	E3-1235	Yes
	E3-1240	No
	E3-1245	Yes
	E3-1260L	Yes
	E3-1270	No
	E3-1275	Yes
	E3-1280	No

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Intel® vPro™ Technology is sophisticated and requires setup and activation. Availability of features and results will depend upon the setup and configuration of your hardware, software and IT environment. To learn more visit: <http://www.intel.com/technology/vpro>

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