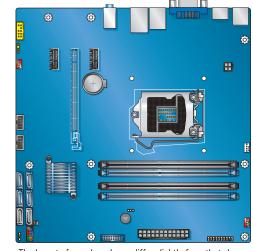
Intel® Desktop Board DB85FL **Integration Guide**



This guide contains basic instructions for installing the desktop board in a compatible chassis. For a complete description of the board and its features, refer to the Technical Product Specification at:

http://www.intel.com/products/motherboard.



The layout of your board may differ slightly from that shown.

Before You Begin



Follow these guidelines before you begin building your system:

- Electrostatic discharge (ESD) can damage components. Perform the procedures described in this guide only at an ESD workstation using an antistatic wrist strap and a conductive foam pad. If such a station is not available, you can provide some ESD protection by wearing an antistatic wrist strap and attaching it to a metal part of the computer chassis.
- Always follow the steps in each procedure in the listed order.
- Set up a log to record information about your computer such as serial numbers, installed options, and BIOS configuration.

Installation Precautions

When you install the desktop board, observe all warnings and cautions in this guide. To avoid injury, be careful of:

- Sharp pins on headers and connectors
- Rough edges and sharp corners on the chassis
- Damage to wires that could cause a short circuit

Observe Safety and Regulatory Requirements

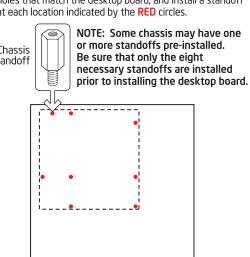
Read and follow the instructions in this guide and the instructions supplied with the chassis and associated devices. If you do not follow these instructions and the instructions provided by the chassis and device suppliers, you increase your safety risk and possibility of noncompliance with regional laws and regulations.

1 Install the I/O Shield Place the I/O shield inside the chassis and press it into place so that it fits tightly and securely. Use caution so you do not deform the I/O shield.

2 Install the Desktop Board

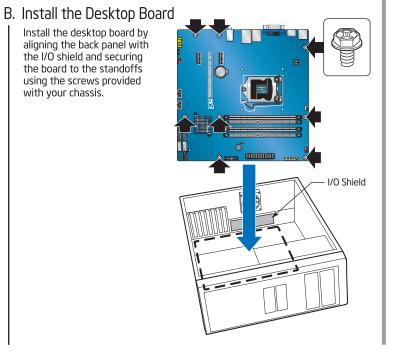
A. Install Standoffs

Eight standoffs should be installed into the chassis before installing the desktop board. Locate the threaded standoff holes that match the desktop board, and install a standoff at each location indicated by the RED circles.



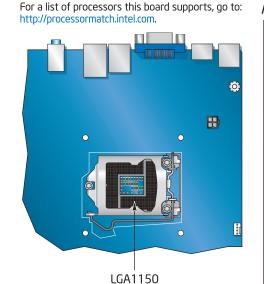
Front of Chassis

Install the desktop board by aligning the back panel with the I/O shield and securing the board to the standoffs using the screws provided with your chassis.



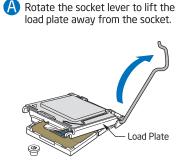
Install a Processor

G89971-002

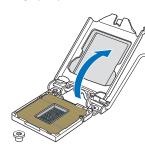


A. Unlatch the Socket Lever B. Open the Load Plate

Push the lever down and away from the socket to release it.



B Make sure the load plate is in the fully open position.





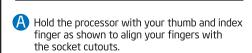


When unpacking a processor,

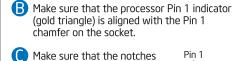
hold by the edges only to

C. Install the Processor

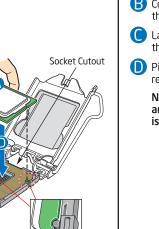
The processor must align correctly with the socket before installation. DO NOT DROP the processor into the socket.

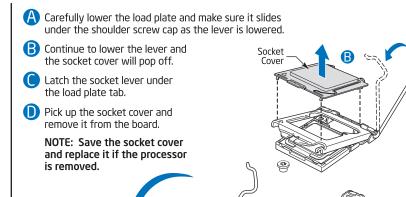


Socket Cutout

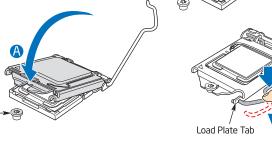


on the processor align with the posts on the socket. Lower the processor straight down without tilting or sliding it in the socket.



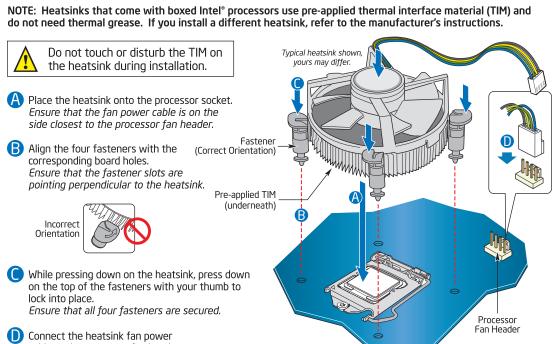


D. Close the Load Plate and Secure the Socket Lever



Install a Heatsink

Processor Socket



5 Install System Memory

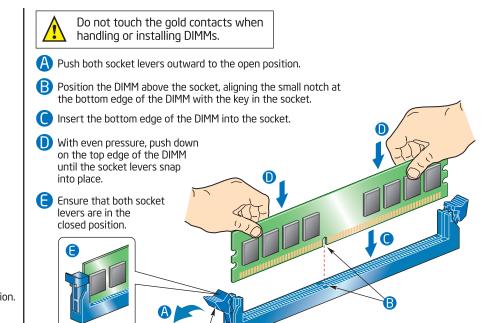
Suggested Memory Configurations and Population Order

NOTE: This desktop board supports 240-pin DDR3 DIMMs only. For a list of tested memory go to: http://www.intel.com/support/go/buildit.

DIMM 3 DIMM 1 Channel B DIMM 2 -

Minimum memory: 1 GB 1333 MHz DDR3 DIMM. Memory should be installed in DIMM number order:

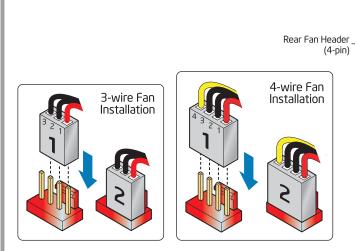
- For single-channel operation, populate Slot 1 or Slots 1 and 3.
- For dual-channel operation, populate Slot 1 and Slot 2 or Slots 1, 2, 3, and 4. For best performance, DIMM pairs should be identical in size, speed, and organization.

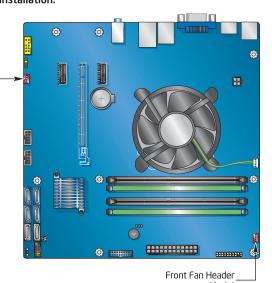


6 Connect Chassis Fans

This desktop board has two fan headers for connecting chassis fans. See the details below for

connecting either a 3-wire or a 4-wire fan to the desktop board fan headers. NOTE: The pin numbering for the fan connectors is shown for ease of installation.



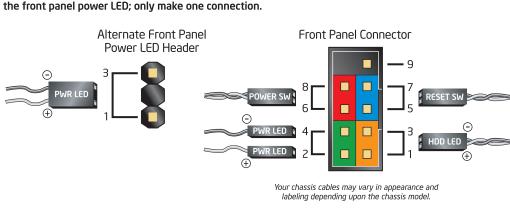


Connect Chassis Front Panel Cables

Make the front panel connections as shown in the diagram below.

cable to the processor fan header.

NOTE: This desktop board provides two options for connecting





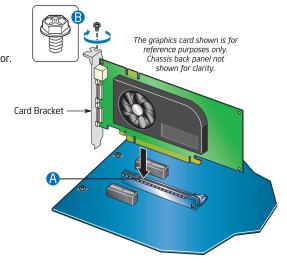
 Front Panel Connector Alternate Front Panel Power LED Header

8 Install a PCI Express* x16 Graphics Card (Optional)

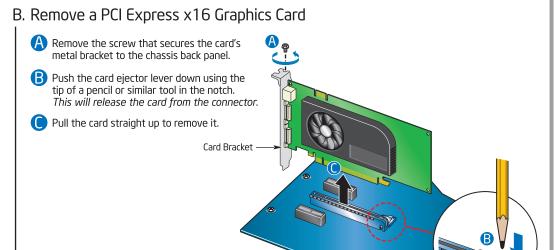
A. Install a PCI Express x16 Graphics Card

A Place a card in the PCI Express 3.0 x16 connector and press down on the card until it is competely seated in the connector and the card retention notch on the card snaps into place around the retention mechanism pin on the connector.

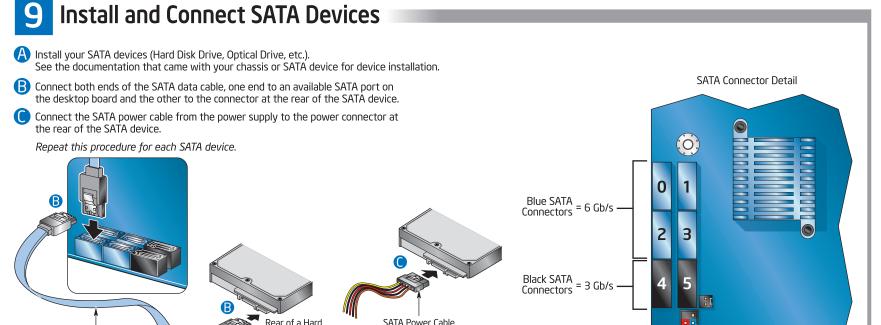
B Secure the card's metal bracket to the chassis back panel with a screw.



Closed Position | Socket Lever _

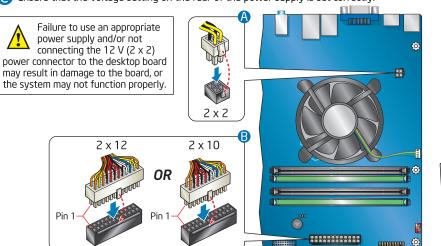


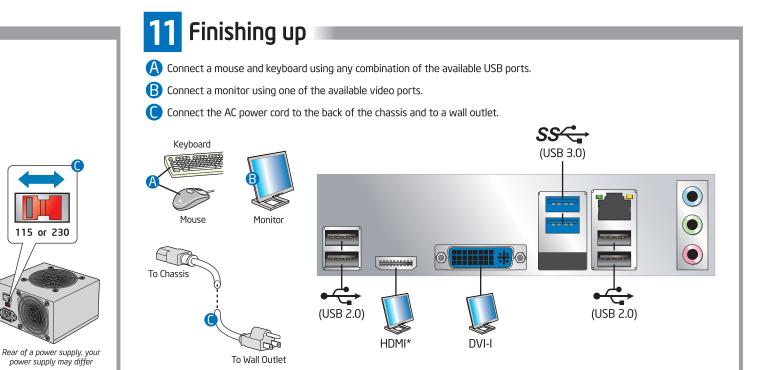
Download from Www.Somanuals.com. All Manuals Search And Download



Make Power Connections

- \triangle Connect the 2 x 2 power supply cable to the matching 2 x 2 power connector on the board.
- $oxed{B}$ Connect the 2 x 12 power supply cable to the matching 2 x 12 power connector on the board. Your power supply may have a 2×10 power cable, if so, connect as shown.
- Ensure that the voltage setting on the rear of the power supply is set correctly





- Turn on your computer and install an operating system.
- B Insert the Intel® Express Installer DVD to install the necessary software to complete your desktop board integration. Go to: to download the latest drivers.
- (Optional) For information on configuring your system for RAID, refer to the Intel® Rapid Storage Technology
- http://www.intel.com/p/en_US/support/highlights/chpsts/imsm.

Troubleshooting

(from the Power Supply)

If your system fails to boot:

- Ensure that the 2 x 2 power supply cable is plugged into the 12 V (2 x 2) processor core voltage connector on the desktop board.
- Disconnect all power and remove and re-insert the processor, memory, and any add-in cards to make sure they are fully seated. Restart the system
- Remove any non-essential hardware components, reconnect the power, and restart the system.

If your system still does not boot, go to: http://www.intel.com/p/en_US/support/, select product support for Intel® Desktop Board DB85FL, and then select "Troubleshooting system 'no boot' issues". This web site contains extensive information to help you solve non-boot problems including a **No Boot Wizard**.

Beep Codes

When a repeating beep code is heard and your system does not boot or display video, the beeps indicate the following

Beep Pattern	Problem
Two beeps (beep, beep [pause], beep, beep)	No video detected
Three beeps (beep, beep, beep [pause]) This beep pattern repeats until the system is powered off.	Метогу еггог
High/Low beeps (high, low, high, low, high, low, high, low)	CPU thermal trip

For more information, go to: http://www.intel.com/support/motherboards/desktop/sb/cs-010249.htm.

Safety and Regulatory Information

Battery Warning

Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.

FCC Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions related to the EMC performance of this product, contact: Intel Corporation, 5200 N.E. Elam Young Parkway, Hillsboro, OR 97124 1-800-628-8686.

Canadian Department of Communications Compliance Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numerique német pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Réglement sur le broullage radioélectrique édicté par le ministére des Communications du Canada.

Japan VCCI Statement

115 or 230

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準 に基づくクラスB情報技術装置です。この装置は、家庭環境で使用すること を目的としていますが、この装置がラジオやテレビジョン受信機に近接して 使用されると、受信障害を引き起こすことがあります。 取扱説明書に従って正しい取り扱いをして下さい。

Korea Class B Statement

이 기기는 가정용(B급) 전자파적합기기로서 주 로 가정에서 사용하는 것을 목적으로 하며, 모 든 지역에서 사용할 수 있습니다.

Korea Certification mark. Includes an adjacent KCC (Korean Communications Commission) certification number: KCC-REM-CPU-DB85FL



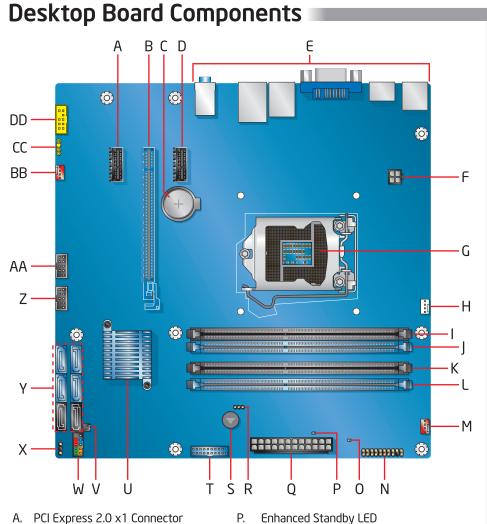
Date of manufacture: February 2013 Country of Origin: China

China RoHS Environmentally Friendly Use Period

The Environmentally Friendly Use Period (EFUP) for Intel Desktop Boards has been determined to be 10 years.

For detailed information about the desktop board's regulatory compliance, refer to the Technical Product Specification at: http://www.intel.com/pi

Reference



Q. Main Power Connector (2 x 12)

T. USB 3.0 Front Panel Connector

Z. USB 2.0 Front Panel Connector

AA. USB 2.0 Front Panel Connector

DD. Front Panel HD Audio Connector

X. Alternate Front Panel Power LED Header

R. BIOS Security Jumper

V. Chassis Intrusion Header

W. Front Panel Connector

Y. SATA Connectors

BB. Rear Fan Header

CC. S/PDIF Header

S. Speaker

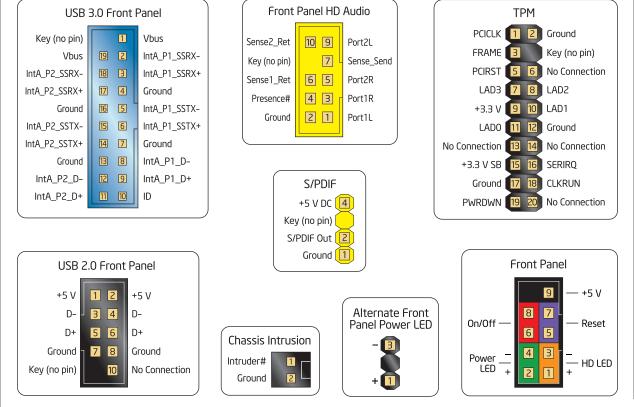
U. Intel® B85 PCH

- A. PCI Express 2.0 x1 Connector
- B. PCI Express 3.0 x16 Connector
- D. PCI Express 2.0 x1 Connector

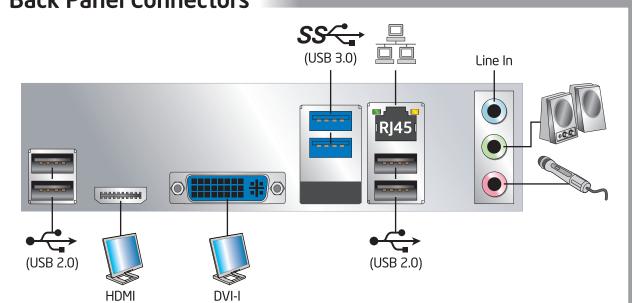
C. Battery

- E. Back Panel Connectors F. 12 V Power Connector (2 x 2)
- G. Processor Socket
- H. Processor Fan Header I. DIMM 3 (Channel A, DIMM 0)
- DIMM 1 (Channel A, DIMM 1)
- K. DIMM 4 (Channel B, DIMM 0) L. DIMM 2 (Channel B, DIMM 1)
- M. Front Fan Header
- N. TPM Header
- O. PWR FAULT LED

Header and Connector Pinouts



Back Panel Connectors



BIOS Reference

The BIOS (Basic Input/Output System) controls the computer's boot process. The purpose of the BIOS is to identify and initialize processor, memory, hard drives, optical drives, and other hardware.

BIOS Settings

For a list of BIOS settings along with their purpose and options, refer to the BIOS Glossary at: http://www.intel.com/support/motherboards/desktop/sb/cs-020304.htm.

You should update the BIOS on your board only if the newer BIOS version solves a specific problem you have. BIOS updates are available in Intel's Download Center at:

There are various methods of updating an Intel® Desktop Board BIOS to the latest version. The number of methods available for any particular board model varies, depending on drive support and BIOS update file size. For update instructions, go to:

http://www.intel.com/support/motherboards/desktop/sb/CS-022312.htm.

Troubleshooting the BIOS

For tips on troubleshooting BIOS issues on Intel® Desktop Boards, refer to: http://www.intel.com/support/motherboards/desktop/sb/CS-028780.htm.

BIOS Security Jumper Settings:

1-2	Normal	
2-3	Lockdown	
No jumper	Configuration	

Online Support

For more information on Intel Desktop Board DB85FL, consult the following online resources:

General board information Available board configurations

Supported processors Chipset information BIOS and driver updates

http://www.intel.com/products/desktop/chipsets/index.htm

More integration information Customer support Intel® Rapid Storage Technology Tested memory

http://www.intel.com/products/motherboard/index.htm

http://ark.intel.com http://processormatch.intel.com

http://downloadcenter.intel.com/ http://www.intel.com/support/go/buildit

http://www.intel.com/p/en_US/support?iid=hdr+support

http://www.intel.com/p/en_US/support/highlights/chpsts/imsm http://www.intel.com/support/motherboards/desktop/sb/cs-025414.htm

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED,

BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER, AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING I IABII ITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel® Desktop Boards may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Intel and the Intel logo are trademarks of Intel Corporation in the United States and/or other countries. * Other names and brands may be claimed as the property of others.

Copyright © 2013, Intel Corporation. All rights reserved. Download from Www.Somanuals.com. All Manuals Search And Download.

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com