

## TB85 Motherboard



- Support the Intel 4th generation Core i7 and Core i5 processors in the 1150 package
- Intel B85 single chip architecture
- Support 2-DIMM DDR3-1600/1333 up to 16G maximum capacity
- 100% X.D.C solid capacitor
- Intel Rapid Start Technology
- Intel Smart Connect Technology
- Intel SBA(Small Business Advantage) Technology

## TB85 Specification

CPU SUPPORT	Intel® Core™ i7 LGA 1150 Processor Intel® Core™ i5 LGA 1150 Processor Intel® Core™ i3 LGA 1150 Processor Intel® Pentium® LGA 1150 Processor Maximum CPU TDP (Thermal Design Power) : 95Watt
MEMORY	Support Dual Channel DDR3 1600/1333/1066 MHz 2 x DDR3 DIMM Memory Slot Max. Supports up to 16GB Memory
INTEGRATED VIDEO	By CPU model Supports DX11.1 Supports HDCP
STORAGE	4 x SATA III Connector 2 x SATA II Connector
LAN	Realtek RTL8111G - 10/100/1000Mb/s Controller
AUDIO CODEC	Realtek ALC892 8-Channel Blu-ray Audio
USB	2 x USB 3.0 Port 1 x USB 3.0 Header 2 x USB 2.0 Port 2 x USB 2.0 Header
EXPANSION SLOT	1 x PCI-E 3.0 x16 Slot 5 x PCI-E 2.0 x1 Slot

REAR I/O	<ul style="list-style-type: none"> <li>1 x PS/2 Mouse</li> <li>1 x PS/2 Keyboard</li> <li>2 x USB 3.0 Port</li> <li>2 x USB 2.0 Port</li> <li>1 x DVI Connector</li> <li>1 x VGA Port</li> <li>1 x LAN Port</li> <li>3 x Audio Jacks</li> </ul>
INTERNAL I/O	<ul style="list-style-type: none"> <li>1 x USB 3.0 Header</li> <li>2 x USB 2.0 Header</li> <li>4 x SATA III Connector (6Gb/s)</li> <li>2 x SATA II Connector (3Gb/s )</li> <li>1 x Front Audio Header</li> <li>1 x Front Panel Header</li> <li>1 x S/PDIF-Out Header</li> <li>1 x CPU Fan Connector</li> <li>2 x System Fan Connector</li> <li>1 x CIR Header</li> <li>1 x COM Port Header</li> </ul>
H/W MONITORING	<ul style="list-style-type: none"> <li>CPU / System Temperature Monitoring</li> <li>CPU / System Fan Monitoring</li> <li>Smart / Manual CPU Fan Control</li> <li>System Voltage Monitoring</li> </ul>
DIMENSION	ATX Form Factor Dimension: 29.5cm x 21cm ( W x L )
OS SUPPORT	Supports Windows 7 / 8 / 8.1 / 10(x64)
BUNDLE SOFTWARE	<ul style="list-style-type: none"> <li>BIO-Remote2</li> <li>BIO-Remote</li> <li>Smart Speed LAN</li> <li>Intel Rapid Start Technology</li> <li>Intel Smart Connect Technology</li> </ul>
ACCESSORIES	<ul style="list-style-type: none"> <li>2 x SATA Cable</li> <li>1 x I/O Shield</li> <li>1 x DVD Driver</li> <li>1 x User Manual</li> </ul>
FEATURES	<ul style="list-style-type: none"> <li>Windows 8 Ready</li> <li>Supports 100% Solid capacitor</li> <li>Supports Charger Booster</li> <li>Supports BIOS Online Update</li> </ul>

## TB85 OVERVIEW

### CPU-Chipset



### Intel B85 chipset

Intel® B85 Express Chipset delivers improved performance and responsiveness. It add the Intel® Smart Response Technology and RST caching technology, B85 delivers an agile PC response for fast system boot time and application load time when used in conjunction with a SSD.



## Intel LGA 1150 4th Generation Intel Core™ Processor support

The 4th generation Intel® Core™ processors are based on 4th generation Intel® Core™ processor architecture, with the latest 22nm process to maximize the processor platform. Based on the new LGA 1150 socket, 4th generation Intel® Core™ processors with graphics with DX11.1 & OCL1.2 cores, the overall performance will meet your demand.

### Audio+



#### HD Audio

Provides high quality sound with minimal loss of audio fidelity.

### Video+



#### DVI

DVI is better than VGA for LCD displays since it is digital while VGA is analog. For LCD displays, the picture is digitized pixel per pixel. Through DVI, the panel gets data for each pixel, so the picture generated in the Graphics device matches the pixels on the panel itself.

### Speed+



#### USB 3.0

Experience Fastest data transfers at 5 Gbps with USB 3.0--the new latest connectivity standard. Built to connect easily with next-generation components and peripherals, USB 3.0 transfers data 10X faster and backward compatible with previous USB 2.0 components.



#### PCIe Gen 3.0

PCIe 3.0 is the next evolution of the ubiquitous and general-purpose PCI Express I/O standard. At 8GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 2.0, while preserving compatibility with software and mechanical interfaces.



## SATAIII 6Gbps

SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA II.



intel Smart Connect

## Intel Smart Connect

Smart Connect will periodically wake the computer is in sleep state, the things to check for updates and information.



intel Rapid Start

## Intel Rapid Start

Rapid Start is a free utility that Biostar motherboard 8 series designed simply to install. Can quickly start to make rapid system recovery from a deep sleep at about 5 seconds.

## Durable+



## 100% Solid Caps

With armor-plated Biostar Technology, all capacitors are placed with 100% solid capacitors that have a lasting life cycle, durability and stability for crucial components.

## Protection+

Supports  
Intel® Small  
Business  
Advantage

## Intel® Small Business Advantage 2.0

Intel® Small Business Advantage 2.0 (Intel® SBA2.0) is a new computing platform, consisting of hardware, software, and firmware for small businesses without a managed network. Once configured, the technology will continually monitor your security and alarms you if it's been compromised by viruses or malware. It will also automatically back-up your company's data and manage routine maintenance tasks.

Intel SBA2.0 also includes five main applications :  
Software Monitor Software Monitor helps keep critical security software running by monitoring it at the hardware level and alerting the business if there has been an attack. The Software Monitor also maintains an event log that shows status information and any errors generated, so businesses can know what happened.



Data Backup and Restore Data Backup and Restore provides reliable after-hours backup of critical data using the local maintenance timer to power on the computer. Data can be backed up to a designated location.



USB Blocker The optional USB Blocker lets businesses control access to their infrastructure, preventing unauthorized USB devices or file imports or exports on company computers.



PC Health Center PC Health Center can schedule and do PC maintenance tasks after hours, without interrupting employee work time. Tasks such as updating the operating system, deleting temporary internet files, and running disk defragmentation can be done at night. PC Health Center works even if the computer is powered-down, as long as it is

plugged in.



Energy Saver With the optional Energy Saver, businesses can save energy by scheduling PCs to power-down at the end of the day and turn on before the work day begins - ready for

employees as they arrive in the morning.



New Enhancements Import/Export, Enhancements with

Windows 8, Easier Customizations



Intel Appup for Resellers An app store built for business, featuring Intel® SBA enhanced apps.



## ESD Protection

ESD (Electrostatic Discharge) is the major factor to destroy the PC by electrical overstress (EOS) condition. ESD occurred by PC users when touch any devices connect to a PC, which may result in damage to the motherboard or parts. ESD protection is designed to protect the motherboard and equipment from damage by EOS.



## USB Polyswitch

On board dedicated power fuse to help prevent USB port failure. It prevents USB Port overcurrent and safe guard your system and device lifespan.



## BIOS Virus Protection

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When enabled, the BIOS will protect the boot sector and partition table by halting the system and flashing a warning message whether there's an attempt to write to these areas.



## OC / OV / OH Protection

OC / OV / OH Protection design detects overvoltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the overvoltage supply to protect your system.

## DIY+



## UEFI BIOS

Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-to-use graphical user interface. The UEFI comes with a colorful easy-understand icons leads users into the setup layer directly.



## Header Zone

Users can easily assemble their own computer, a simple-swap data discs and other accessories.



## Bitcoin Mining

BIOSTAR offers a perfect choice for "Bitcoin Mining" with more PCI-E slots for users who wish to create a dedicated mining machine and getting a value oriented motherboard that can load up graphic cards is the ideal strategy.

\*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!

BIOSTAR