

## TB150 PRO Motherboard



- Supports 6th Generation Intel® Core™ Processor
- Intel B150 single chip architecture
- Support 2-DIMM DDR4-2133/ 1866 up to 32G maximum capacity
- Support USB 3.0
- Support DVI display port
- Support GbE LAN

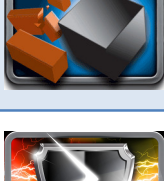
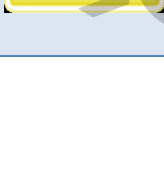
### Specification

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| CPU SUPPORT      | 7th & 6th Gen Intel® Core™ i7 LGA 1151 Processor<br>7th & 6th Gen Intel® Core™ i5 LGA 1151 Processor<br>7th & 6th Gen Intel® Core™ i3 LGA 1151 Processor<br>7th & 6th Gen Intel® Pentium® LGA 1151 Processor<br>7th & 6th Gen Intel® Celeron® LGA 1151 Processor<br>Maximum CPU TDP (Thermal Design Power) : 91Watt |
| MEMORY           | Support Dual Channel DDR4 2133/ 1866 MHz<br>2 x DDR4 DIMM Memory Slot<br>Max. Supports up to 32GB Memory                                                                                                                                                                                                            |
| INTEGRATED VIDEO | By CPU model<br>Supports DX12<br>Supports HDCP                                                                                                                                                                                                                                                                      |
| STORAGE          | 6 x SATA III Connector<br>1 x M.2 (M Key) 32Gb/s Connector, support M.2 type 2242/ 2260/ 2280 SATA 6Gb/s & PCI-E Storage(shared IO w/ PCI-E x16_2)                                                                                                                                                                  |
| LAN              | Realtek RTL8111H - 10/100/1000Mb/s Controller                                                                                                                                                                                                                                                                       |
| AUDIO CODEC      | Realtek ALC887 8-Channel HD Audio                                                                                                                                                                                                                                                                                   |
| USB              | 4 x USB 3.0 Port<br>1 x USB 3.0 Header<br>2 x USB 2.0 Port<br>2 x USB 2.0 Header                                                                                                                                                                                                                                    |
| EXPANSION SLOT   | 2 x PCI-E 3.0 x16 Slot(x16 + x4)<br>3 x PCI-E 3.0 x1 Slot                                                                                                                                                                                                                                                           |
| REAR I/O         | 1 x PS/2 Mouse<br>1 x PS/2 Keyboard<br>4 x USB 3.0 Port<br>2 x USB 2.0 Port<br>1 x USB 2.0 Port(only 5V power, up to 1.45A)<br>1 x DVI-D Connector, resolution up to 1920 x 1200 @60Hz<br>1 x LAN Port<br>3 x Audio Jacks                                                                                           |

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| INTERNAL I/O    | 1 x USB 3.0 Header<br>2 x USB 2.0 Header<br>6 x SATA III Connector (6Gb/s)<br>1 x M.2 Key M 32Gb/s Connector, support M.2 type 2242/ 2260/ 2280 SATA 6Gb/s & PCI-E Storage(shared IO w/ PCI-E x16_2)<br>1 x Front Audio Header<br>1 x Front Panel Header<br>1 x CPU Fan Connector<br>2 x System Fan Connector<br>1 x COM Port Header |
| H/W MONITORING  | CPU / System Temperature Monitoring<br>CPU / System Fan Monitoring<br>Smart / Manual CPU Fan Control<br>System Voltage Monitoring                                                                                                                                                                                                    |
| DIMENSION       | ATX Form Factor Dimension: 29.5cm x 21cm ( W x L )                                                                                                                                                                                                                                                                                   |
| OS SUPPORT      | Supports Windows 7 / 8.1(x64) / 10(x64)                                                                                                                                                                                                                                                                                              |
| BUNDLE SOFTWARE | BullGuard<br>BIO-Remote2<br>Smart Speed LAN                                                                                                                                                                                                                                                                                          |
| ACCESSORIES     | 2 x SATA Cable<br>1 x I/O Shield<br>1 x DVD Driver<br>1 x User Manual                                                                                                                                                                                                                                                                |
| FEATURES        | Supports 100% Solid capacitor<br>Supports Charger Booster<br>Supports BIOS Online Update                                                                                                                                                                                                                                             |

## OVERVIEW

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|  | <b>Intel B150 chipset</b><br>The Intel® B150 chipset is a single-chipset design to support socket 1151 Intel® 6th generation Intel® Core™ processor-based platform. Provides excellent performance and increased bandwidth and stability. Intel® B150 chipset can also enable iGPU function, letting users enjoy the latest Intel® integrated graphic performance. The PC platform features improved adaptive performance that adds speed when you need it. When combined with advanced system responsiveness, the platform delivers the ultimate PC experience. |
|  | <b>HD Audio</b><br>Provides high quality sound with minimal loss of audio fidelity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  | <b>AudioArt Capacitors</b><br>PRO series comes with Nichicon high-end audio capacitors. Nichicon Capacitors offer artistic-like sound resolution and Hi-Fi audio amplification effect, making your room a live concert.                                                                                                                                                                                                                                                                                                                                          |

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|     | <h3>DVI</h3> <p>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.</p>                                                                                |
|    | <h3>DX12</h3> <p>DirectX 12 introduces the next version of Direct3D, the graphics API at the heart of DirectX. Direct3D is one of the most critical pieces of a game or game engine, and we've redesigned it to be faster and more efficient than ever before. Direct3D 12 enables richer scenes, more objects, and full utilization of modern GPU hardware.</p>                         |
|    | <h3>USB 3.0</h3> <p>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.</p>                                                                                             |
|    | <h3>PCIe 3.0</h3> <p>PCIe 3.0 is 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.</p>                                                                                                                            |
|   | <h3>SATAIII 6Gbps</h3> <p>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.</p>                                                                                                                                                             |
|  | <h3>Moistureproof of PCB</h3> <p>The popularity of PC usage and working environment is getting deteriorating and moist (rural, coastal, etc.). The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moisture-proof PCB meets high density and high reliability requirements for moisture proof.</p> |
|  | <h3>Low RdsOn P-Pak MOS</h3> <p>Low resistance design can significantly reduce the current out of energy loss. Low temperature, small size, excellent thermal conductivity.</p>                                                                                                                                                                                                          |
|  | <h3>Tough Power Enhanced</h3> <p>To ensure the longevity of motherboard, PRO series with Tough Power Enhanced can endure massive electric current and ensure full energy output without additional energy loss, just like a super man protecting your PC system.</p>                                                                                                                     |
|  | <h3>ESD Protection</h3> <p>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.</p>                            |
|  | <h3>USB Polyswitch</h3> <p>On board dedicated power fuse to help prevent USB port failure. It prevents USB Port overcurrent and safe guard your system and device lifespan.</p>                                                                                                                                                                                                          |

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|   | <h3>OC / OV / OH Protection</h3> <p>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.</p>                                                                 |
|  | <h3>UEFI BIOS</h3> <p>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.</p> |
|  | <h3>Header Zone</h3> <p>Users can easily assemble their own computer, a simple-swap data discs and other accessories.</p>                                                                                                                                                                               |

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

