

## Product Specification

High Definition IP Set-Top Box  
**ITB-3001**

Version 1.0

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|              |          |                 |            |
|--------------|----------|-----------------|------------|
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**Confidential****■ PRODUCT DESCRIPTION**

High Definition IP Set Top Box ITB-3001 is PLANET's latest IP STB that supports videos up to High Definition (HD) 1080P formats. With the next generation multimedia streaming technology, home users can enjoy high quality videos entertainment without having to go to video rental stores or even use Pay-Per-View.

The ITB-3001 offers DLNA / UPnP AV services, based on MPEG-4/H.264/DTS compression technology to reach wider audience or achieve higher density of service that thus increases bandwidth efficiency. The IP STB allows the users to enjoy IP multicast video and home networking service.

IP Set-top Box is advanced customer premises equipment (CPE) device for delivering streaming video, audio, and IPTV directly from Internet to Teclos subscribers. The ITB-3001 is designed to meet service provider's deployment requirements for IP-based multimedia service delivery and it is easy to be installed even by subscribers. Once the UPnP connection is set up, you can huddle on the sofa using supplied remote control to search and enjoy your favorite IPTV, Video, and Music in your home networking.

The PLANET IP Set-Top Box guarantees the best multimedia experience for its users with the advanced features such as real RMVB and DivX. In addition to its super analog video and audio outputs, the ITB-3001 also provides HDMI component outputs and Dolby digital to enable the users to enjoy high definition video.

**■ PRODUCT FEATURES**

- Dolby Digital, DTS Compliant
- UPnP AV, DLNA AV Compliant
- Multicast IPTV & Video-on-Demand (VoD)
- Broadcast TV & Time-Shift TV
- Integrated HDMI & Full HD (1080P) TV
- Electronic Program Guide and Digital rights management
- User-friendly Graphical On-Screen Menu
- Supports Multiple file formats
- Built-In BitTorrent download engine and Internet Media such as RM/RMVB, DivX, etc

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## ■ PRODUCT SPECIFICATION

### MAIN COMPONENT

Chipset: Realtek RTL1073, 400MHz  
 RAM: 128MB DDR2  
 Flash: 512MB NAND Flash

## ■ FUNCTIONAL SPECIFICATIONS

|                             |              |                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                       |              | ITB-3001                                                                                                                                                                                                                                                                                                                                                                                 |
| Operation System            |              | Linux (kernel 2.6.12.6)                                                                                                                                                                                                                                                                                                                                                                  |
| Port                        | Video Output | HDMI Auto(480p,720p,1080i,1080p), YPbPr and Component Video                                                                                                                                                                                                                                                                                                                              |
|                             | Audio Output | Audio L/R                                                                                                                                                                                                                                                                                                                                                                                |
|                             | Ethernet     | 1 Ethernet:10/100Mbps, Half or Full Duplex, Auto-negotiation, Auto MID/MID-X                                                                                                                                                                                                                                                                                                             |
|                             | USB          | 1 USB 2.0 (Host External Storage support)                                                                                                                                                                                                                                                                                                                                                |
| LED Indicators              |              | 1 Power LED light on front panel<br>1 Network LED light on front panel                                                                                                                                                                                                                                                                                                                   |
| Power Switch                |              | 1 Power On / Off Switch on front panel                                                                                                                                                                                                                                                                                                                                                   |
| Decoding                    |              | Up to 1080p (RMVB up to 720p)                                                                                                                                                                                                                                                                                                                                                            |
| Media Format                | Video        | MPEG1 (AVI / MKV / TS / DAT / MPG / MPEG / VOB)<br>MPEG2 (MKV / DAT / MPG / MPEG / VOB / ISO / IFO / TS / TP) / M2TS<br>MPEG4 (AVI / MP4 / MKV / MOV / WMV / ASF)<br>DivX 3 / 4 / 5 / 6 · Xvid (AVI / MKV / MP4 / MOV)<br>H.264 / AVC (TS/AVI / MP4 / MKV / MOV / FLV) / M2TS<br>VC-1 (TS / AVI / ASF / WMV) / M2TS<br>WMV9 (ASF / WMV)<br>Real Video 8 / 9 / 10 (RM / RMVB), up to 720p |
|                             | Audio        | MPEG I Layer 1, 2, 3 (2-CH) and MPEG II Layer 1, 2 (Multi-Channel)<br>LPCM, ADPCM, FLAC, AAC, WAV and OGG Vorbis<br>Dolby® Digital Plus / AC3<br>Supports 7.1 / 5.1 down mix to 2 channel outputs<br>DTS 2.0 + Digital Out®<br>Supports 7.1 down mix to 2 channel outputs<br>RA1 / RA-cook / RA-lossless<br>WMA                                                                          |
|                             | Photo        | HD JPEG with unlimited resolution<br>GIF<br>PNG<br>BMP<br>TIF<br>TIFF                                                                                                                                                                                                                                                                                                                    |
|                             | Subtitle     | SRT, SMI, SUB, SSA, and IDX+SUB                                                                                                                                                                                                                                                                                                                                                          |
| Reading Storage File System |              | EXT3<br>NTFS<br>FAT16 / 32<br>HFS+                                                                                                                                                                                                                                                                                                                                                       |
| Writing Storage File System |              | EXT3<br>NTFS                                                                                                                                                                                                                                                                                                                                                                             |
| Environment Specification   |              |                                                                                                                                                                                                                                                                                                                                                                                          |

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|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| Dimension (W x D x H) | 204x 145x 40 mm                                                           |
| Power                 | 12V DC, 2.0A                                                              |
| Power Consumption     | In standby mode: 12V, 0.03A, 0.36W<br>In operating mode: 12V, 0.45A, 5.4W |
| Operating Temperature | Operating temperature: 0 ~ 45 Degree C                                    |
| Operating Humidity    | Relative Humidity: 80 % RH (non-condensing)                               |
| Emission              | FCC, CE                                                                   |

**■ PHYSICAL SPECIFICATION**

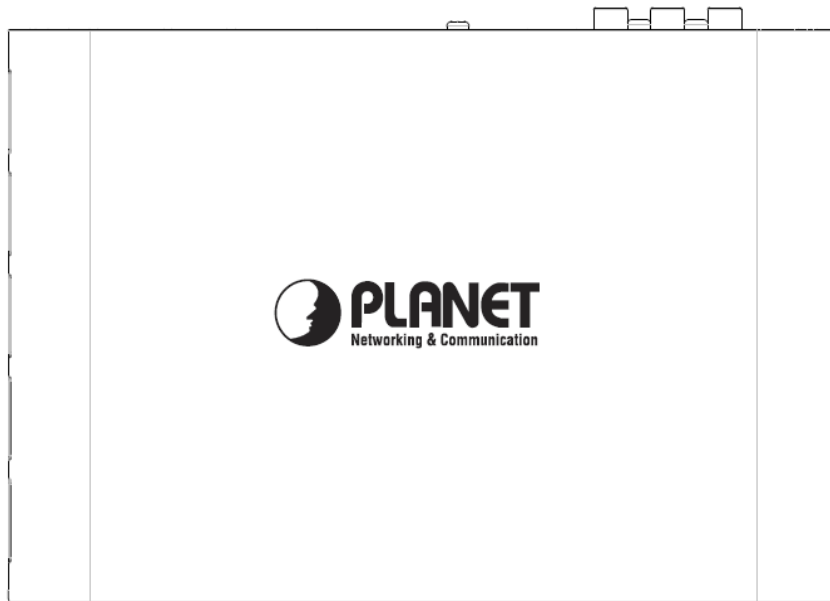
**Dimensions**

204x 145x 40 mm (W x D x H)

**Weight**

420g

**Top Panel**



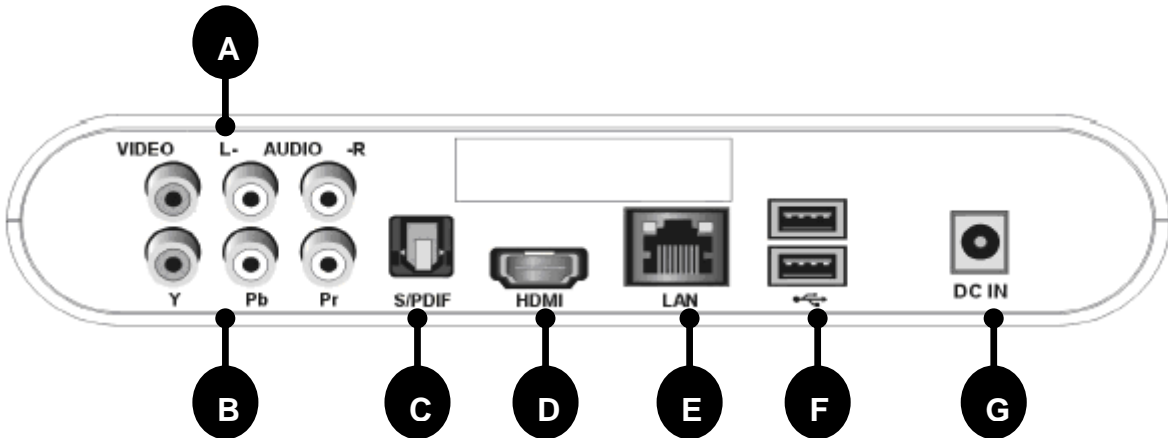
**Front Panel**



**Front Panel and LED Definition**

| Connector |         | Description                                               |
|-----------|---------|-----------------------------------------------------------|
| Power     | ON/OFF  | The LED light will turn "Blue" color when turn on the STB |
|           | Standby | The LED light will turn "Red" color                       |
| LAN       |         | Access LAN with "Blue" color                              |

**Rear Panel**

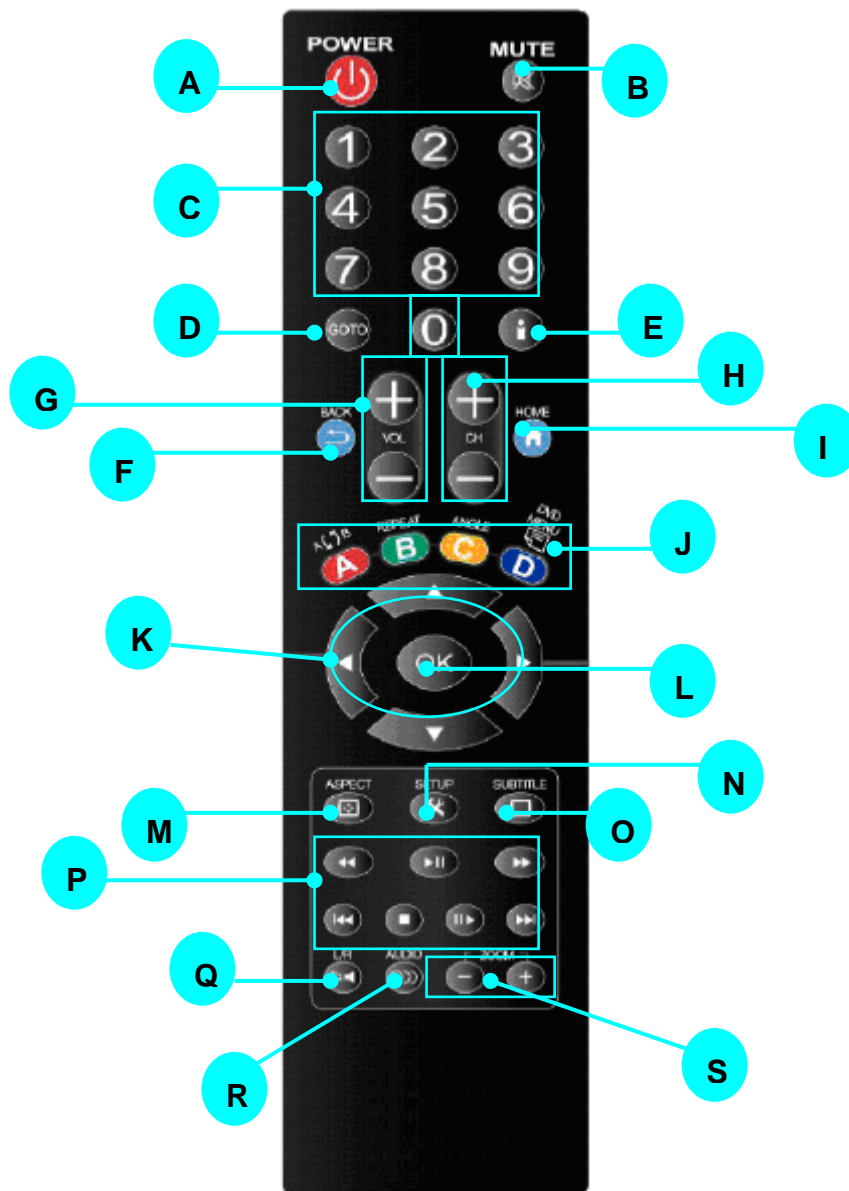


**Rear Panel Port and Button Definition**

















| No. | Connector            | Description                                                                                                                                                                                |
|-----|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A   | Audio L-/R-<br>VIDEO | Use AV cable to connect to the VIDEO IN/ AUDIO L/R IN jacks on the TV sets or Home Entertainment systems in your home in your home by using VIDEO (Yellow)/AUDIO L (White)/R (Red) cables. |
| B   | Y/Pb/Pr              | Connect to a Y/Pb/Pr-compatible display using three video (Y/Pb/Pr) and two audio jacks (AUDIOL/R), through a component video cable with green, blue, and red connectors.                  |
| C   | S-PDIF               | Using an optical digital audio (also called S/PDIF) cable to connect to S-PDIF port of the TV sets or Home Entertainment systems in your home.                                             |
| D   | HDMI                 | Connects to the HDMI jack on the display, a single cable transmits both audio and video data.                                                                                              |
| E   | LAN                  | Connects to the Ethernet cable with RJ-45 Ethernet connector.                                                                                                                              |
| F   | USB                  | Plug the supported USB devices into USB ports, such as USB hard drives, cameras, camcorders and wireless USB dongles.                                                                      |
| G   | DC IN                | Connects to the DC power adapter.                                                                                                                                                          |

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**Remote Controller**



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**Keypad Definition**

| No. |                                                                                     | Connector               | Description                                                                                                                          |
|-----|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| A   |    | <b>POWER</b>            | Turn on/ off system                                                                                                                  |
| B   |    | <b>MUTE</b>             | Mute/ Resume audio                                                                                                                   |
| C   |    | <b>NUMERS</b>           | 0-9 number keys for selecting desired options.                                                                                       |
| D   |    | <b>GOTO</b>             | Video/movie chapter selection.                                                                                                       |
| E   |    | <b>INFO</b>             | Display the information of media files while in play mode.                                                                           |
| F   |    | <b>BACK</b>             | Return to the previous display.                                                                                                      |
| G   |  | <b>VOL</b>              | Volume up (0-28), default is 16;<br>Volume down (0-28), default is 16.                                                               |
| H   |                                                                                     | <b>CHANNEL</b>          | Channel up/Channel down.                                                                                                             |
| I   |  | <b>HOME</b>             | Hot key to the main OSD menu.                                                                                                        |
| J   |  | <b>REPEAT A-B</b>       | Press once to mark desired repeat point A, press again to mark desired repeat point B, and press yet again to turn this feature off. |
|     |  | <b>REPEAT</b>           | Enable/disable repeat of file playback.                                                                                              |
|     |  | <b>ANGLE</b>            | Switch DVD display angles.                                                                                                           |
|     |  | <b>DVD MENU</b>         | Show DVD Menu.                                                                                                                       |
| K   |  | <b>Navigate Buttons</b> | Navigate through menu screen or media libraries.                                                                                     |
|     |  |                         |                                                                                                                                      |
| L   |  | <b>OK</b>               | Confirm or select.                                                                                                                   |
| M   |  | <b>ASPECT</b>           | Pan Scan 4:3 /Letter; Box 4:3 / Wide Screen16:9/ Full Screen.                                                                        |

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|   |                                                                                     |                    |                                                                                                                                                         |
|---|-------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| N |    | <b>SETUP</b>       | Enter setup menu.                                                                                                                                       |
| O |    | <b>SUBTITLE</b>    | Switch subtitle files.                                                                                                                                  |
| P |    | <b>PREV / NEXT</b> | Media Scan Backward/Forward during audio/video playback. Supports the following speeds: 1x, 1.5x, 2x, 4x, 8x, 16x, 32x.                                 |
|   |    | <b>PLAY/PAUSE</b>  | Play media / Pause media.                                                                                                                               |
|   |    | <b>PREV</b>        | Media Skip Previous.                                                                                                                                    |
|   |    | <b>NEXT</b>        | Media Skip Next.                                                                                                                                        |
|   |    | <b>STOP</b>        | Stop playback and return to the previous Screen.                                                                                                        |
|   |    | <b>SLOW MOTION</b> | Slow motion through video playback. Supports the following speeds: 1x, 3/4x, 1/2x, 1/4x, 1/8x, 1/16x.                                                   |
| Q |    | <b>L/R</b>         | Switch Left/Right speaker.                                                                                                                              |
| R |  | <b>AUDIO</b>       | Switch audio outputs.                                                                                                                                   |
| S |  | <b>ZOOM</b>        | Enlarge image on video mode (, 2x, 3x, 4x, 8x). Reduce image on video mode (4/5x, 3/4x, 2/3x, 1/2x). Enlarge image on photo mode (Fit, 2x, 4x, 8x, 16x) |

## ■ ENVIRONMENTAL SPECIFICATION

### Operating

Temperature: 0 ~ 45 Degree C

Relative Humidity: 80 % RH (non-condensing)

### Storage

Temperature: -25 ~ 55 Degree C

Relative Humidity: 80 % RH (non-condensing)

## ■ ELECTRICAL SPECIFICATION

Input Voltage: 12V, 2A

## ■ REGULATORY COMPLIANCE

CE, FCC Part 15 Class B

## ■ RELIABILITY

MTBF &gt; 50,000Hrs @25degree C MIL-STD-781C



**Confidential****■ BASIC PACKAGING**

- ITB-3001 Unit x 1
- CD-ROM x 1 (Include Quick Guide and User Manual)
- Remote Controller x 1
- Power Adapter x 1
- AV Cable (RCA) x 1
- RJ-45 Cable x 1
- Battery (AAA) x 2

**■ PACKAGING INFORMATION**

- **Gift Box Dimension**  
268 x 233 x 61mm (W x D x H)
- **Gift Box Weight**  
0.93kg (Gross weight)
- **Carton Dimension**  
554 x 484 x 337mm (W x D x H)
- **Carton Weight**  
18.6 Kg (Gross weight)
- **Carton Units**  
20 units