

AT&T TV™ Device and Remote Control

User Manual



Introduction

Product manuals are intended to help customers understand the workings of the hardware devices. This product manual provides overview information of the AT&T TV™ device and remote control and addresses specific functions of the devices. It is posted online at **att.com/userguides** for customer access.

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Terminology	
Term	Description
DHN	DIRECTV Home Network
OTT	Over-the-Top, the delivery of video via the Internet directly into the AT&T TV device, allowing access to services anywhere, anytime, and on any compatible device
PiP	Picture-in-Picture
RF4CE	Radio frequency for consumer electronics
RUI	Remote User Interface, the UI of which is accessed and manipulated directly through the client

I. OVERVIEW

The AT&T TV device is a game-changing, proprietary "Over-the-Top" (OTT) device that delivers video and integrated content to your TV over the internet. It enables you to watch online videos, listen to music, use thousands of third-party apps, and play games—all on your TV.

It comes preloaded with some Google apps, but thousands of others are available at the Google Play Store.

The AT&T TV is used on its own as a standalone device (one per TV) so you don't need any other AT&T TV set-top boxes or services. (It's not compatible with any DIRECTV set-top boxes or existing Genie® Servers.)

It comes with a remote control offering many features, including the convenience of voice control.

II. HARDWARE INFORMATION

A. Specifications

AT&T TV Specifications

Size and Weight (not including feet)

- Height: 19 mm
- Width: 158.6 mm
- Depth: 158.6 mm
- Feet: 1 mm
- Weight: 402 g

Packaging

- Carton
- Height: 228 mm
- Width: 505 mm
- Depth: 404 mm
- Weight: 28.8 lb

Environmental Requirements

- Operating temperature: 0° C to 122° F (0° to 50° C)
- Storage temperature (no damage): 0° C to 150° F (0° to 66° C)
- Relative humidity: 5-85% noncondensing

Remote Control Support (Built-In Capability)

- IR Remote Control Interface
- RF Remote Control Interface
- Bluetooth Interface BLE (Bluetooth Low Energy)

XMP2 Ports and Interfaces

- OTT Mode - 802.11ac 204 GHz or 5 GHz Wi-Fi (Home Gateway)
- DC Power Input
- HDMI 2.0b / HDCP 2.2 and 1.4
- 1x USB 2.0 Port
- Optical S/PDIF Output Connector
- 10/100 Ethernet port

Power

- EPS10 External PSU
- AC External PSU -120v~60 HZ, 18W
- Input: 12V DC 1.5A
- Active Power Consumption below 15W

Processor

- BRCM7271

Memory

- 2GB DDR memory
- 64 bit DDR3/DDR4 interface
- 16GB eMMC

Video and Audio Formats

- MPEG2
- Dolby Audio
- MPEG-4 AVC single, dual or quad display up to 1080i60/1080p30 or UHD/4K
- HEVC / VP9 display
- HDR10 SMPTE ST 2084, ST 2086 "Blu-Ray" standard and HLG support

TV Compatibility

- Compatible with HD and 4K TVs with HDMI 2.0 & 1.4, HDCP 2.2, 60 Hz and capable of 4K, 1080p and 3D

B. Client Hardware

1. Front Panel

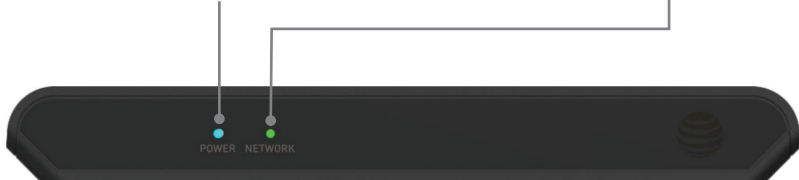
- Blue Power Status Indicator LED
 - Green / Yellow / Red Network Status Indicator
- 
- A black, horizontal AT&T TV device. On the left side, there are two small circular LEDs. The first is labeled 'POWER' and is blue. The second is labeled 'NETWORK' and is green. To the right of these LEDs is a small circular speaker grille.

FIGURE 1: AT&T TV—FRONT PANEL

2. Side Panel

- Red Reset Button
- 
- A black, rectangular AT&T TV device shown from a side-on perspective. On the front edge, there are two small circular LEDs (one blue, one green). On the side edge, there is a small red button labeled 'RESET'.

FIGURE 2: AT&T TV—SIDE PANEL

3. Rear Panel

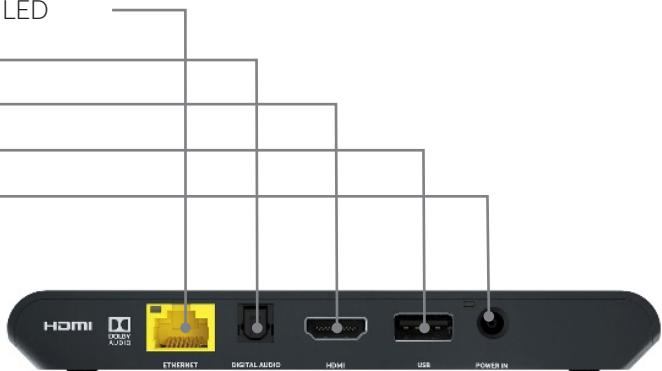
- 10/100 Ethernet Connector with Indicator LED
 - S/PDIF Optical Audio Connector
 - HDMI Connector (Type A)
 - USB 2.0 Port (Type A Connector)
 - DC Power Inlet Connector
(for EPS10 External Power Supply)
with Power Indicator LED
- 
- A black, horizontal AT&T TV device shown from the back. From left to right, the connectors are: an HDMI port labeled 'HDMI', an S/PDIF Optical Audio port labeled 'DIGITAL AUDIO', a yellow Ethernet port labeled 'ETHERNET', an HDMI port labeled 'HDMI', a USB port labeled 'USB', and a DC Power Inlet port labeled 'POWER IN'. Each port has a corresponding label below it.

FIGURE 3: AT&T TV—REAR PANEL



C. Other Associated Hardware

1. Mounting Cables

The AT&T TV (C71KW) can be set on a tabletop or mounted to a wall by attaching a cable tie to the recess in the bottom cover.

2. Power Supply

The AT&T TV (C71KW) uses the DIRECTV® EPS10 power supply.

3. Remote Control

The AT&T TV (C71KW) works with the RC82V Remote Control. (The box and remote control are not compatible with any older DIRECTV or AT&T U-verse® equipment.) Like other AT&T remote controls, the RC82V can be programmed to operate some features on TVs or audio/video equipment. The key features of the RC82V Remote Control are:

- The RC82V Remote Control works in IR, RF, and BLE (Bluetooth Low Energy) mode.
 - Basic remote operations can be performed in the IR mode.
 - The remote uses Bluetooth for two-way communication to the AT&T TV.
 - Like RF mode, Bluetooth eliminates the need for the remote and the paired devices to be in line of sight to each other.
- The RC82V Remote Control has a directional pad. Basic operations and functions can be made by pressing the direction, then pressing ok.
 - If the remote is not paired to an AT&T TV, the directional pad can be used for functions like Up, Down, Left, Right, and Select.
 - Once the remote is paired to an AT&T TV, the D-pad will allow you to navigate horizontally (left to right) and vertically (up and down) in the screens.
- Once paired, Voice recognition is also available with the RC82V Remote Control so you can use voice search.



FIGURE 4: AT&T TV—WALL MOUNTING



FIGURE 5: RC82V—REMOTE

III. FEATURES

A. Audio & Video

Hardware Features	
Feature	AT&T TV
SWiM/Multi-Switch capable	
Ethernet	✓
MoCA	
Wireless	✓ (802.11ac)
Digital Audio Output	✓
HEVC	✓
AT&T TV WPS Button	
RC7x RF Remote	
BLE Remote	✓
Front Touch Panel/Resolution LED	
Power Button	
Menu/Guide/Arrows/Select/Res buttons	
Recording LED	
Reset Button	✓
Smart Card	
USB 2.0	✓
eSATA	
External Power Supply	✓ (EPS10)
HDD Size	

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Software Features		
Category	Feature	AT&T TV
3DTV	3D Video Playback	
Ultra HD (4K)	4K Video Playback	✓
Audio	Digital Audio	✓
Audio	Dolby Digital	✓
Audio	Secondary/Alternate Audio	✓
Cloud DVR	Accessing Cloud Content	✓
Captioning	DIRECTV Subtitles	✓
Captioning	Closed Captioning	✓
Energy Star	Power Saving Standby	✓
Guide	One-touch Recording	✓
Live TV	Trick-play	✓
Networking	RJ45 Ethernet Connection	✓
Parental Controls	Settings Saved & Recalled	✓
Picture In Picture	PIP Support	✓
PPV	Linear	✓
PPV	VOD	✓
Recommendations	What's On Now	✓
Recommendations	You Might Like	✓
Recommendations	Movies	✓
Search	Smart Search	✓
Search	Recent Searches	✓
Search	Top Matches	✓
Voice Search	Support for Voice Search	✓
YouTube	YouTube Support	✓

IV. APPENDIX

A. LED STATES

Front Panel “Network” LED	
Color	State
Off	Booting/Standby
Green	Excellent signal strength (RSSI is > -75 dBm)
Yellow	Borderline signal strength (RSSI is between -75 and -82 dBm)
Red	Poor signal strength (RSSI is < -82 dBm)
Flashing Red	No network connectivity

Front Panel “Power” LED	
Color	State
Bright Blue	On
Dim Blue	Off/Standby
Flashing Blue	SWDL/Software Download
Flashing Blue & Red	HW Error/Hardware Error

B. Federal Communications Commission Interference Statement

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.

Responsible Party:

AT&T/AT&T TV
2230 E. Imperial Hwy
El Segundo, CA 90245
1-800-DIRECTV

- Trade Name: AT&T/AT&T TV
- Model Number: C71KW and RC82V

Federal Communications Commission (FCC): This equipment complies with both Part 15 and Part 68 of the FCC Rules.

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for the compliance could void the user's authority to operate the equipment.

The user may find the following booklet, prepared by the Federal Communications Commission, helpful: "How to Identify and Resolve Radio and TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC. To meet FCC requirements, only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with Class B limits may be attached to this device. Operation with noncertified peripherals is likely to result

in interference to radio and TV reception. To meet FCC requirements, shielded cables are required to connect the device to a personal computer, peripheral or other Class B-certified device.

If this AT&T TV causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance in order for you to make necessary modifications to maintain uninterrupted service. If trouble is experienced with this unit, for repair or warranty information, please contact DIRECTV Customer Care at the address and phone number listed below. If the equipment is causing harm to the network, the telephone company may request that you disconnect the equipment until the problem is resolved.

AT&T/AT&T TV
2230 E. Imperial Hwy
El Segundo, CA 90245
1-800-DIRECTV

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this AT&T TV does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your alarm company, telephone company or a qualified installer.

DO NOT DISASSEMBLE THIS EQUIPMENT. It does not contain any user-serviceable components.

We recommend the installation of an AC surge arrester in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources.

forth for an uncontrolled environment. This equipment was verified for RF exposure and found to comply

FCC RF Radiation Exposure Statement

MPE/SAR/RF Exposure Information. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment was verified for RF exposure and found to comply with Council Recommendation 1999/519/EC and FCC OET-65 RF exposure requirements.

WARNING: While this equipment is in operation, a separation distance of at least 20 centimeters (equal to 8 inches) must be maintained between the antenna inside the equipment and the bodies of all persons exposed to the antenna in order to meet the FCC RF exposure guidelines. Making changes to the antenna or the equipment is not permitted. Doing so may result in the equipment exceeding the FCC RF exposure guidelines. This equipment must not be co-located or operated in conjunction with any other antenna or radio transmitter. (Not applicable for Remote control.)