



SURVEY

- At then end of this presentation please fill out the survey on line.
- You can wait until later, but do not forget.
- Use this link

http://bit.ly/cutthecordsurvey





Two Terms

OTA - Over-The-Air TV



OTT - Over-The-Top





Cut The Cord Topics for Today

- My reason for cutting the cord
- OTA Over the Air AntennaWebAntennae
 - **DVR** for **OTA**
- Over the Top Over the Internet

TV Streaming
 Hardware for streaming
 Streaming services
 Streaming Channels
 Local TV

Other ways to get TV

- Broadband providers
- Telephone through the Internet (VOIP)
- List of Resources



An early TV with a remote control!





Another early TV with 4 remotes!





TV
programming
In 1950.



CHANNEL 13 UTICA, NEW YORK

PROGRAMS SUBJECT TO CHANGE WITHOUT NOTICE

		Test Pattern From 10:30 A.M. Insofar as Possible
MONDAY August 14th	5:10 5:15 5:30 6:00 6:30 6:35 6:40 6:45 7:00 7:45 8:00 8:30 9:00 9:30 11:00 12:00	Coming Attractions Korean Briefing Session (NBC) Howdy Doody (Mars, Inc.—NBC) Cactus Jim (NBC) World News Today (Harris Brothers) Gold Medal Neighbor (Gold Medal) Hammer Supply Time House of Rothbard Ransom Sherman Show (NBC) Wendy Barrie Show (NBC) Camel News Caravan (R. J. Reynolds—NBC) Menasha The Magnificent (NBC) Voice of Firestone (Firestone Tire & Rubber Co.—NBC) Lights Out (NBC) Trotting Races (NBC) Who Said That? (Langdon & Hughes) Broadway Open House (Anchor-Hocking—NBC) Coming Attractions and Sign Off
TUESDAY August 15th	5:10 5:15 5:30 6:00 6:30 6:40 6:45 7:00 7:45 8:00 9:30 10:00 11:00 12:00	Coming Attractions Korean Briefing Session (NBC) Howdy Doody (Kellogg—Colgate—NBC) Cactus Jim (NBC) World News Today Woloshin's Fur Fashions for Fall The John Conte Little Show (Van Camp's Foods—NBC) Ransom Sherman Show (NBC) Utica Club Sportsreel (West End Brewing Co.) Camel News Caravan (R. J. Reynolds—NBC) Cinema Theatre—The Woman in the Hall (NBC) Rendevous with Music (NBC) The Armstrong Theatre (Armstrong Co.—NBC) Old Gold Amateur Hour (P. Lorillard—NBC) Broadway Open House (Anchor-Hocking—NBC) Coming Attractions and Sign Off



Between 2012 and 2017, traditional TV viewing by 18-24-year-olds dropped by almost 10 hours a week, or by roughly I hour and 25 minutes per day.

In percentage terms, traditional TV viewing by 18-24-year-olds was down by a huge 15.7% year-over-year and has now fallen by 43.6% since 2012.

In other words, in the space of 5 years, close to half of this age group's traditional TV viewing time has migrated to other activities or streaming.



According to Nielson On average, Americans have 189 cable TV channels and only watch 17



Why I began to look at cutting the cord.

Page 2 of 4

February 15, 2018

Hewitt Poplack

Account Number: Security Code: 8000994297-02

8524

Spectrum

Have questions about your bill?
Visit us at brighthouse.com/billing
Or, call us at 855-65-SPECTRUM (1-855-657-7328)

TREE YESD IND RP-E-SCH-RESHARKSWANKER SHIS-TREE GUIR.

Charge Details		
revious Balance		165.78
ayments Received - Thank You	02/01	-165.78
emaining Balance		\$0.00

Payments received after 02/15/18 will appear on your next bill.

Service from 02/21/18 through 03/20/18

Spectrum TV™

Spectrum TV Select

	Basic TV & Expanded Basic TV Services	
Spectrum Re		13.98
	ers at \$6.99 each	10.00
Digi Tier 1		12.00
DVR Service		19.99
		\$110.96
Taxes	Local Communications Service Tax	3.17
	State Communications Service Tax	9.67
	State Sales Tax	0.84
Fees & Char	ges Federal Regulatory User Fee	0.08
		\$13.76
Spectrum TV	^{/™} Total	\$124.72
Spectrun	n Internet™	
	n Internet™ ernet with Wifi	69.99
Spectrum Int		69.99 -10.00
Spectrum Int	ernet with Wifi	100100000000000000000000000000000000000
Spectrum Int Includes Bur	ernet with Wifi	-10.00
Spectrum Int Includes Bur	ernet with Wifi- idled Discount with TV ernet™ Total	-10.00 \$59.99
Spectrum Int	ernet with Wifi- dled Discount with TV ernet™ Total	-10.00 \$59.99

Spectrum TV Select	01/18-02/20	22.00
Basic TV & Expanded Basic TV & Partial Month Charges Total		\$22.00
Current Charges		\$215.56
Total Due by 03/08/18		\$215.56

Billing Information

64.99

Tax and Fees - This statement reflects the current taxes and fees for your area (including sales, excise, user taxes, etc.). These taxes and fees may change without notice.

Terms & Conditions – Spectrum's detailed standard terms and conditions for service are located at spectrum.com/policies.

Programming Changes - For information on any upcoming programming changes, please consult the Legal Notices published in your local newspaper and on spectrum.net/programmingnotices.

Spectrum Receiver \$6.99 - Charges include \$5.99 for Receiver Rental and \$1.00 for Secure Connection.

Bright House Networks Cable Entity - The Bright House Networks entity providing the services is a subsidiary of Charter Communications Operating, LLC and uses the brand name "Spectrum".

Authorization to Convert your Check to an Electronic Funds Transfer Debit - For your convenience, if you provide a check as payment, you authorize Spectrum, formerly Bright House Networks, to use the information from your check to make a one-time electronic funds transfer from your account. Should you have any questions about this, your statement, or with the services provided to you by Spectrum, please call our office at the telephone number on the front of this statement. Or visit brighthouse.com/locations. To assist you in future payments, your bank or credit card account information may be electronically stored in our system in a secure, encrypted manner.

Past Due Fee / Late Fee Reminder - A late fee will be assessed for past due charges for service.





February 15, 2018

Account Number: Security Code:



Have questions about your bill?

Visit us at brighthouse.com/billing

THE THE THE THE REPORT OF THE PARTY WAS A STREET, SHARE THE PARTY WAS A STREET, THE PARTY WAS A STREET

Or, call us at 855-65-SPECTRUM (1-855-657-7328)

Charge Details

Previous Balance 165.78
Payments Received - Thank You 02/01 -165.78
Remaining Balance \$0.00

Payments received after 02/15/18 will appear on your next bill.

Partial Month Charges

Spectrum TV Select	01/18-02/20	22.00
Basic TV & Expanded Basic TV	/ Services	
Partial Month Charges Total		\$22.00
Current Charges		\$215.56
Total Due by 03/08/18		\$215.56





BRIGHT HOUSE IS NOW SPECTRUM

Important account update

Dear Hewitt Poplock,

Thank you for being a Spectrum customer.

When you signed up for your services, you received a promotional discounted rate on your bill. Your discounted rate for your promotion is expiring and your services are scheduled to be billed at the standard rates. Beginning with your next statement, your monthly bill will be approximately \$176.45 plus applicable taxes and fees.

We hope you are taking advantage of all that your services have to offer.

- Free WiFi Hot Spots, over 500,000 nationwide
- 24/7 Customer Care
- . No extra charges for HD programming
- No Data Limits
- Free TV apps so you can watch TV any way you choose
- Free mobile apps to manage and enjoy all of your services on the go

If you have any questions, or want to add Spectrum services, call us_at (855) 889-9081 or visit Spectrum.com/support.

Sincerely,

Sam Araji

Vice President, Billing



Thank you for being a Spectrum customer.

When you signed up for your services, you received a promotional discounted rate on your bill. Your discounted rate for your promotion is expiring and your services are scheduled to be billed at the standard rates. Beginning with your next statement, your monthly bill will be approximately \$176.45 plus applicable taxes and fees.



FRONTIER MONTHLY SERVICE CHARGES FROM 6/03/18 to 7/02/18

FiOS Internet 40.00

\$30.00 Discount Thru 03/02/19 Fi0S Internet 150/150

WiFi Router .00

\$10.00 Discount Thru 03/02/19

TOTAL MONTHLY SERVICE CHARGES 40.00

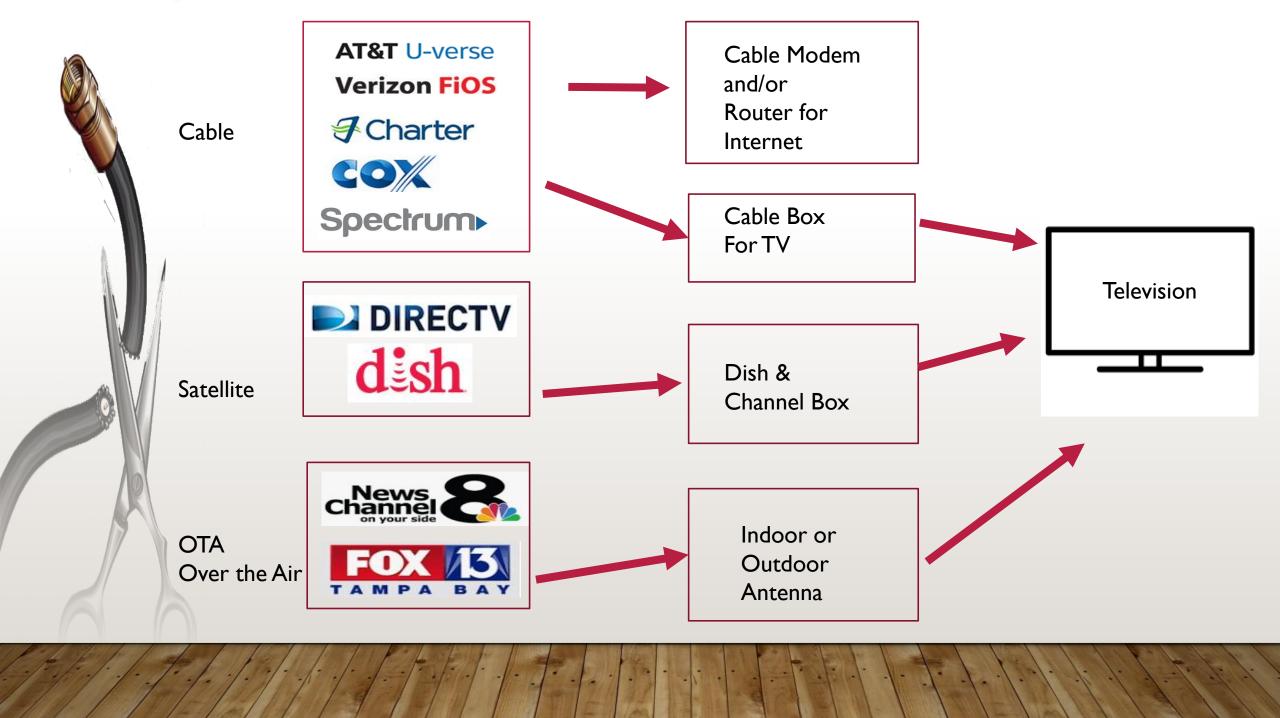
TOTAL 40.00

9/06/2018	DIRECTV*NOW 800-965-7288 TX	Jug	\$43.95	\$43.95





TV Today





Needed to Stream





Content Available For Streaming













Some of the **Subscription Services** that may be available for devices

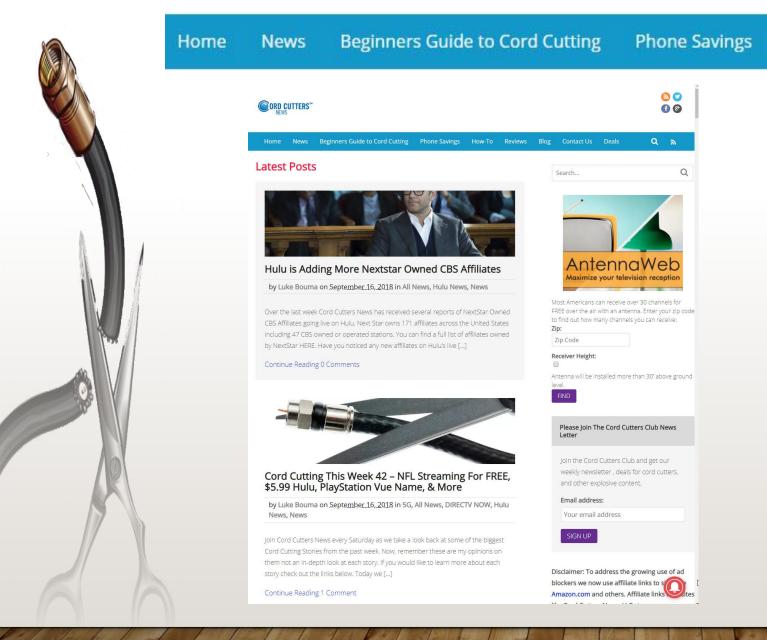


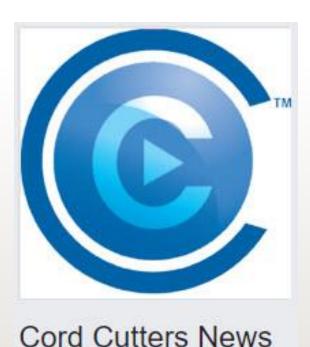
Amazon TV - Apple TV - Roku **Chromecast - PlayStation (PS)** XBox - Smart TV

Each of the Streaming Services has plans that include some of your favorite channels









@CordCuttersNews

Reviews

Blog

Contact Us

Deals

How-To







Begin by entering your address. It is used to calculate the strength of each station that may be received at your location and determine which station each antenna type will receive.

* Address:	Enter a ZIP Code or full address
Antenna Height:	☐ The antenna will be installed more than 30' above ground level.
Submit	
* Required field.	
AntennaWeb.org is design	ed for use with United States addresses only.
We take your privacy se	eriously. Click here to view our Privacy Policy.

https://antennaweb.org/Address







Paradenton, Florida 34207, United States

AntennaWeb

I Up to 66 channels from 18 over-the-air stations may be received at this location.

↑ To enter a different address, click here.

This address is affected by the FCC Repack.

Stations and Antenna Types

The table below lists the stations predicted to be received at this location. The stations are sorted according to the color-code antenna type needed to receive them.

The list displays each station's primary channel, network and distance and direction in degrees from this location, relative to Magnetic North. Click on a station for more info about the antenna type needed to receive it.

Choose the color-coded antenna type that matches your viewing preferences.

TITANTV

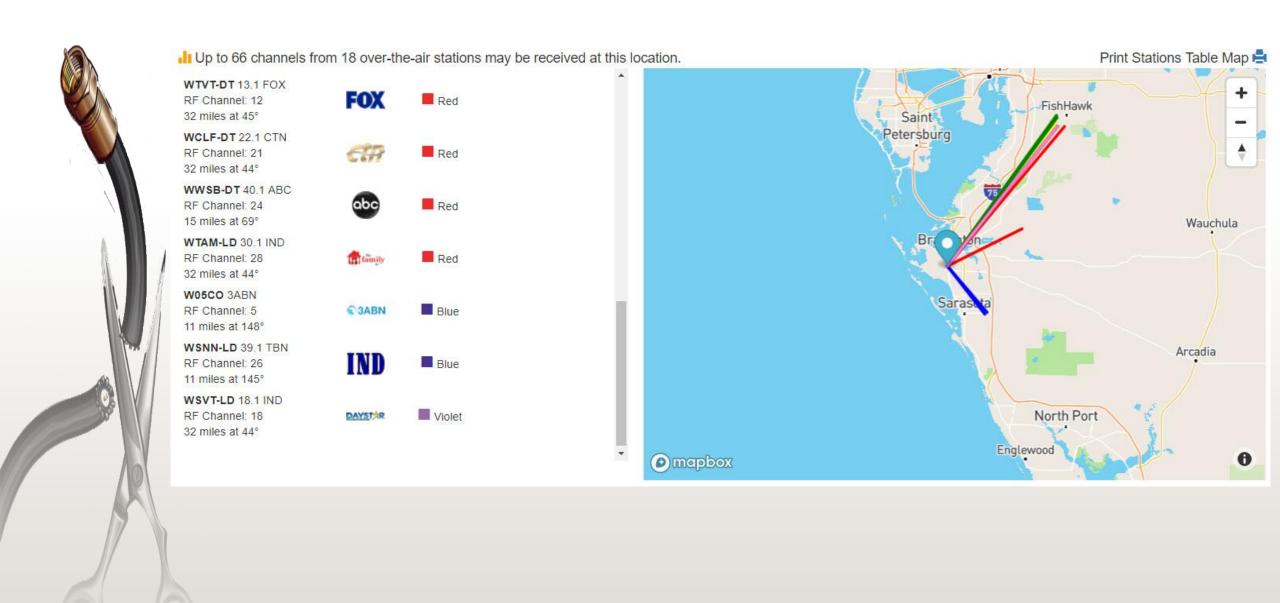
Go to TitanTV.com, a FREE television guide, to view a schedule for these channels.

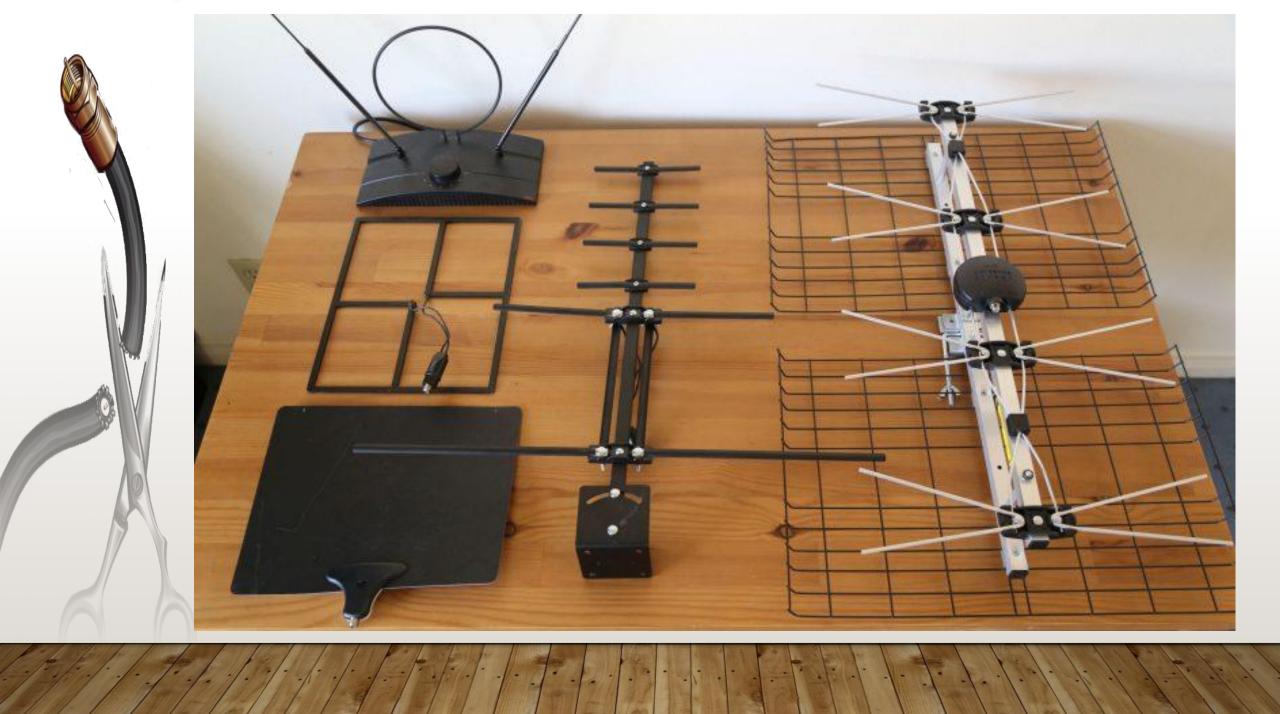


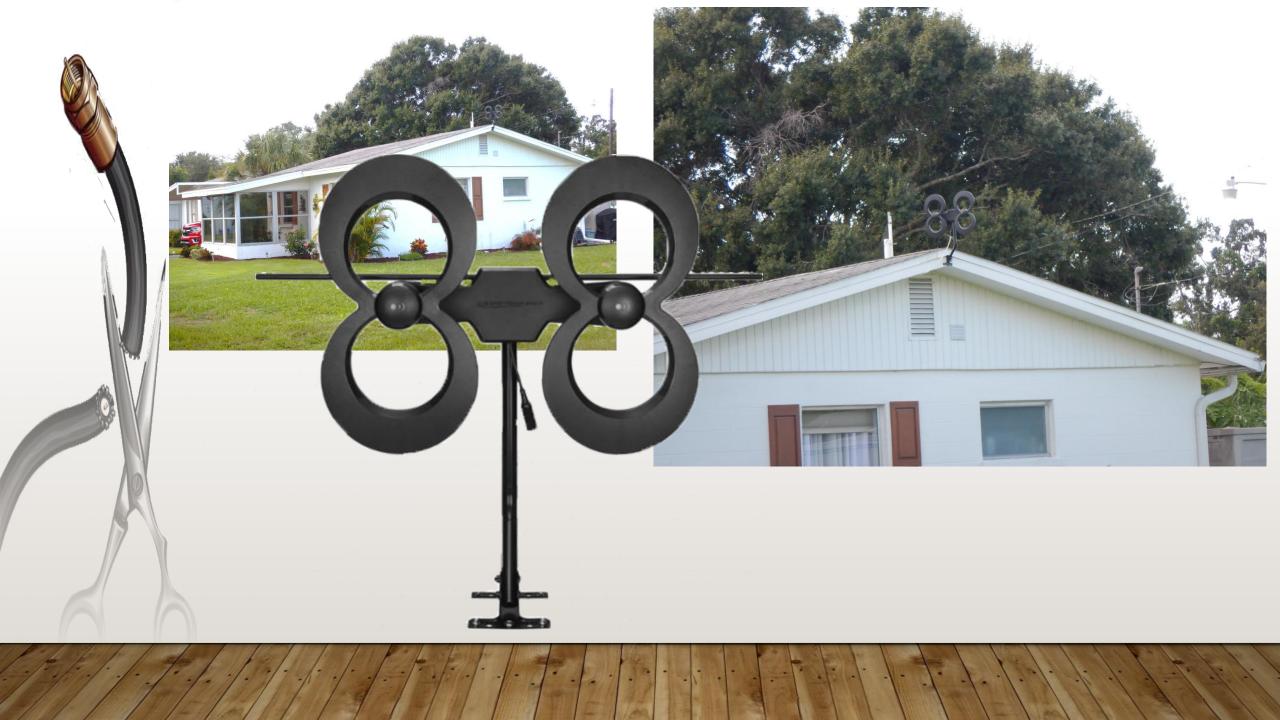
Privacy Policy - Contact Us - Help

© Copyright TitanTV Inc., 2018

Stations	Antenna	FCC Repack
WEDQ-DT 16.1 PBS RF Channel: 13 33 miles at 41°	Yellow	
WVEA-DT 50.1 UMA RF Channel: 47 33 miles at 41°	Yellow	6
WFTT-DT 62.1 UNI RF Channel: 25 32 miles at 44°	Yellow	
WMOR-DT 32.1 IND RF Channel: 19 32 miles at 44°	Yellow	6
WFTS-DT 28.1 ABC RF Channel: 17 33 miles at 42°	abc Yellow	
WTOG-DT 44.1 CW RF Channel: 44 32 miles at 42°	Yellow	6



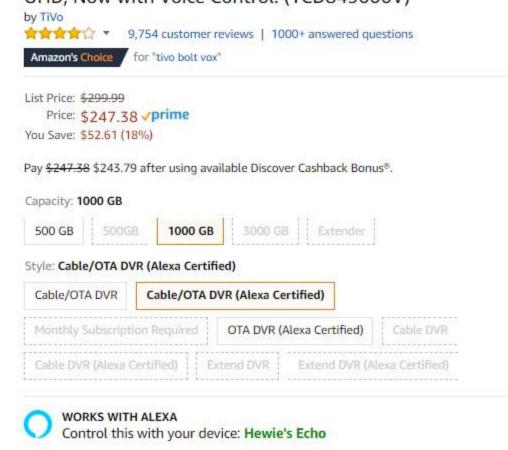








TiVo BOLT VOX 1TB, DVR & Streaming Media Player, 4K UHD, Now with Voice Control! (TCD849000V)







Tablo DUAL 64GB OTA DVR for Cord Cutters - with WiFi - For use with HDTV Antennas

by Tablo

★★★☆☆ * 137 customer reviews | 101 answered questions

Amazon's Choice

for "tablo"

List Price: \$199.99

Price: \$150,00 Vprime | FREE One-Day

You Save: \$49.99 (25%)

Get \$70 off instantly: Pay \$80.00 upon approval for the Amazon Prime Rewards Visa Card.

Capacity: 64GB Onboard / Up to 8TB USB

Up to 8TB USB / Cloud DVR

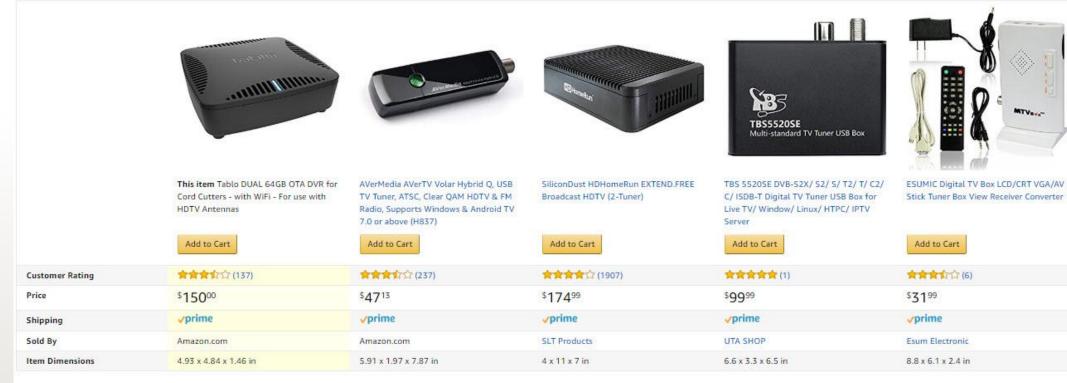
Compatible from 5 sellers 64GB Onboard / Up to 8TB

USB \$150.00 √prime

- . Whole-home networked DVR: Browse, record, and stream free live over-the-air (OTA) HDTV to any device, any time, anywhere - without the expense or commitment of cable or satellite contracts.
- . Connect tablo to your Home Network via WiFi or Ethernet.Cancel cable, keep the DVR: Watch, pause, and record live antenna TV. Browse upcoming shows, schedule and manage recordings by episode or Series. Skip commercials, fast-forward and rewind recordings.
- Dual-band Wi-Fi included: The only OTA DVR with Wi-Fi, Tablo lets you position the DVR and antenna for the best signal reception. (HDTV antenna required, sold separately)
- 64GB internal + expandable USB storage: Record up to 40 hours of HDTV, right out of the box. Upgrade recording capacity by adding an external USB hard drive. (USB hard drive sold separately)
- Tablo: the live TV app: Enjoy Tablo apps on iOS & android mobile devices, computers, Smart TVs, streaming media & gaming devices, including Roku, Fire TV, Android TV, Apple TV, NVIDIA SHIELD, and XBOX
- See more product details



Compare with similar items







Roll over image to zoom in

Fire TV Recast, Over-the-air DVR, 1 TB, 150 hours

by Amazon

Price: \$279.99 vprime

or 5 monthly payments of \$56.00

Pay \$279.99 \$276.40 after using available Discover Cashback Bonus®.

This item will be released on November 14, 2018.

Pre-order now.

Want to receive this the day it comes out? Select FREE Two-Day Shipping at checkout. Ships from and sold by Amazon Digital Services LLC.

Configuration: 4 tuners, 1 TB, 150 hours

4 tuners, 1 TB, 150 hours \$279.99 prime

- Fire TV Recast is a DVR that lets you watch and record over-the-air TV at home or on-the-go with a Fire TV, Echo Show, or compatible mobile device—with no monthly fees.
- Watch and record live sports, local news, late night shows, and other can't miss TV from channels available through an HD antenna (sold separately) like ABC, CBS, FOX, NBC, PBS, and The CW.
- . With 4 tuners, you can record up to 4 shows at once. Plus, store for up to 150 hours of HD programming.
- With a compatible Alexa-enabled device, you can use your voice to search for shows, manage and schedule recordings, and help with other requests. Say things like "Alexa, open Channel Guide" or "Alexa, record 'Riverdale.'"
- . Fire TV Recast delivers the most reliable video streams over Wi-Fi of any over-the-air DVR.

We want you to know:

To use Fire TV Recast to watch and record over-the-air TV, you'll need the following (sold separately):

- . An HD antenna—specific channel availability and reception varies by location. Learn more
- · A Fire TV streaming media player or Echo Show.
- Access to the free Fire TV app on a Fire tablet (5th Gen or above), or an iOS 10 (or above) or Android 4.4 (or above) mobile device.

New (1) from \$279.99 /prime











































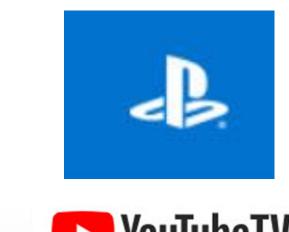




















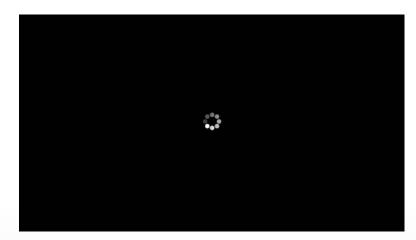


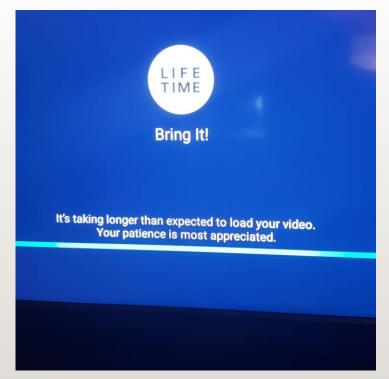














PACKAGES US vs. THEM WHAT'S PLAYING FEATURES WAYS TO WATCH FAQ

SIGN IN

GET ONE WEEK FREE

RECORD LIVE TV WITH CLOUD DVRBETA, NOW INCLUDED WITH EVERY PACKAGE!

Functions may be limited in beta. Compatible device required. Not available for select channels. Data connection required. Limited to 20 hours of recording time. Recordings expire after 30 days. Restrictions apply.



STREAM LIVE TV, WHEREVER.

Binge the newest shows, catch the game, and track breaking news—all on your favorite devices.

65+ CHANNELS FOR

GET ONE WEEK FREE

After free trial, service renews monthly at then-prevailing rate (currently min. \$40/mo.) unless you cancel. New sub's only. Rest's apply. See details





AVAILABLE ON YOUR FAVORITE DEVICES









Streaming Service Features Comparison



	sling TELEVISION	DIRECTV NOW	fubo™	PlayStation Vue	hulu	₽TV	©CBS ALL ACCESS
Channel guide	✓	~	√	~	√	√	×
Live playback features	~	~	~	~	√	~	×
Commercial skipping	×	×	×	×	√	×	~
Max. picture quality	1080p	720p	1080p	720p	1080p	1080p	1080p
Streaming quality (our rating)	3/5	3/5	4/5	5/5	4/5	5/5	4/5
Usability (our rating)	2/5	4/5	4/5	4/5	2/5	5/5	4/5
Max. simultaneous streams	4	2	2	5	Unlimited*	3	2
	FREE TRIAL	FREE TRIAL	FREE TRIAL	FREE TRIAL	FREE TRIAL	FREE TRIAL	FREE TRIAL



Local TV
On
Streaming
Services

https://www.cnet.com/news/are-yo			DirecT			-		Taraba	Fub		-	-	i marcin			Live		Protection			-	tion V		resett		and the second	gitta too	ng Blu		-	1		YouTi			
Nebwork channel:					-				-		MyTV												60-75-10M												1000	
Totals by channel:	71	82	105	82	12	8	0	71	98	80	3	8	143	139			12	8	31	104			13	0	0	0	17	11	0	0	98	100	-	99	80	35
Total for each service:			- 31	60					21	30.		_			67	24					25	52					- 2	8					- 5	11		
TOP 50 MARKETS	-		-			_														-											-				-	1
New York	Yes	Yes	Yes	Yes	Yes	1		Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Y 65	Yes				Yes				Yes	Yes	Yes	Yes	4666	
Los Angeles	Y-os	Yes	Yes	Yes	Yes			Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes				Yes				Yes	Yes	Yes	Yes	Yes	
Chicago	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes				Yes	Yes			Yes	Yes	Yes	Yes		Ye
Philadelphia	Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes					Yes	Yes			Yes	Yes	Yes	Yes	Yes	Ye
Dallas-Ft. Worth	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes				Yes	Yes			Yes	Yes	Yes	Yes	Yes	3
Washington DC	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes				Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes				Yes	Yes			Yes	Yes	Yes	Yes	Yes	
Houston	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes			Yes	Yes:	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes				Yes				Yes	Yes	Yes	Yes	Yes	
San Francisco-Oakland-San Jose	Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes					Yes	Yes:			Yes	Yes	Yes	Yes	Yes	Ye
Atlanta	Yes.	Yes	Yes	Yes		Yes		Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes					Yes				Yes	Yes	Yes	Yes	Yes	Ye
Boston (Manchester)	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes						Yes			Yes	Yes	Yes	Yes	Yes	Ye
Phoenix (Prescott)	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes				Yes				Yes	Yes	Yes	Yes	Yes	
Seattle-Tacoma	Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes		Yes		Yes	Yes	Yes		Yes		Yes	Yes	Yes									Yes	Yes	Yes	Yes	Yes	Ye
Tampa-St Petersburg (Sarasota)	Yes	Yes	Yes	Yes		Yes			Yes			Yes	Yes		Yes	Yes		Yes	Yes	Yes	Yes						Yes				Yes		Yes	Yes	\$10000	E40087
Detroit		Yes	Yes	Yes		Yes		Yes		Yes	-		Yes		Yes	Yes		Yes	Yes	Yes	Yes	Yes					Yes				Yes	Yes	Yes	Yes	Yes	-
Minneapolis-St. Paul	Yes		Yes	Yes	Yes	10000		Yes	1	Yes			Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes						Yes				Yes	Protection of	de constitue de la constitue d	Yes	Yes	-
Miami-Ft Lauderdale	Yes	Yes	Yes	Yes				Yes		Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes			Yes					and other	Yes			Yes		1000	Yes	Yes	
Denver	Yes	Yes	Yes	Yes				Yes		Yes		_	Yes		Yes	Yes				Yes	Yes										Yes			Bereve	Yes	-
Orlando-Daytona Beach-Melbourne	Yes	100	Yes	1000	Yes			Yes	-00000	Yes		_	Yes	Yes	Yes	Yes	Vás			Yes	HiMG:	Yes	Vac				Yes				Yes	Yes	1000	Yes	1100	Ye
Cleveland-Akron (Canton)	Yes	Yes	Yes	Yes	1.02			Yes		Yes		_	Yes	Yes	Yes		100		Yes		Yes		100				103				Yes	Yes	900000	Yes	describe	-
Sacramento-Stockton-Modesto	Yes		Yes	Yes		Yes		Yes	3000	Yes	1	Yes			Yes	Yes		Vac	Yes		Yes										Yes	Yes		Yes	#Hoose	Ye
St. Louis	Yes	Yes	Yes	Yes		100		Yes		Yes		105	100		Yes	Yes		105	165	Yes		Yes									Yes	Yes	Yes	Yes	Yes	
Portland (OR)	Yes		105	Yes		-		162	1.00	Yes				185	Yes	Yes				1.05		Yes									Yes			Yes	B H668	4
Charlotte			Wee	-	Yes			Yes	Yes				Van	Vie			Yes		Was	Yes		posence	Was				Yes						derese e	84460		
	Yes	Yes	Yes	Yes	162	2000		337	1.00	Yes	4420	_	Yes		Yes	Yes	100	2022				Yes	168				160				Yes	Yes	Yes	Yes		
Pittsburgh			Yes	Yes		Yes		Tes	Yes	Yes	Yes	_	Yes	Yes	Yes			105	Yes	105	Yes										Yes	Yes	4666	Yes	Yes	
Rafeigh-Durham		Yes	Yes	Yes		-	-		Yes	Yes		-	Yes	WASH.	Yes	Yes			Yes			Yes	000000								Yes		Yes	Service of	8666	
Baltimore	Yes	Yes	Yes	Yes	-	-		11100	Yes	Yes		_	Yes		Yes	Yes			Yes	Yes			Yes								Yes	Yes	Yes	Yes	Yes	
Nashville		Yes	Yes	Yes				Yes	Yes			_	Yes	Yes	Yes	Yes				Yes		Yes	Yes								Yes		10000	Yes	\$1000	Ye
Indianapolis	Yes		Yes	Yes		-			Yes	Yes		_	Yes		Yes	Yes			Yes			Yes									Yes	Yes	Yes	Yes	Yes	
San Diego		Yes		Yes				Yes	Yes			_	Yes	Yes	Yes	Yes				Yes	Yes							Yes			Yes	Yes	Yes	Yes		
Salt Lake City	Yes	Yes	Yes	Yes					Yes	Yes			Yes		Yes	Yes			Yes		Yes	Yes	Yes								Yes	Yes	Yes	Yes	Yes	
San Artonio	Yes	Yes	Yes	Yes		_		Yes	Yes				Yes	Yes	Yes				Yes	Yes	Yes										Yes	Yes	Yes	Yes	Yes	Ye
Hartford-New Haven	Yes	Yes	Yes	Yes				Yes	1000	Yes		_	Yes	Yes	Yes	Yes			Yes	Yes		Yes						Yes			Yes	Yes	Yes	Yes	Yes	
Kansas City	Yes	Yes	Yes	Yes				Yes	Yes	Yes			Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes									Yes	Yes	Yes	Yes	Yes	Ye
Columbus (OH)	Yes	Yes	Yes	Yes				Yes	Yes					Yes	Yes	Yes				Yes	Yes										Yes	Yes	Yes	Yes	Yes	Ye
Cincinnati	Yes	Yes	Yes	Yes					Yes	Yes			Yes		Yes	Yes					Yes	Yes									Yes	Yes	Yes	Yes	Yes	
Milwaukee	Yes		Yes	Yes				Yes	Yes	Yes			Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes								Yes	Yes	Yes	Yes	Yes	Ye
West Palm Beach-Ft. Pierce	Yes	Yes	Yes	Yes						Yes			Yes		Yes	Yes				Yes											Yes	Yes	Yes	Yes	Yes	Ye
Greenville-Spartanburg-Asheville	Yes	Yes		Yes						Yes			Yes		Yes	Yes					Yes										Yes	Yes	Yes	Yes	Yes	
Austin	Yes		Yes	Yes					Yes				Yes		Yes	Yes					Yes						Yes				Yes	Yes	Yes	Yes	Yes	
as Vegas (NV)	Yes	Yes		Yes									Yes		Yes																Yes	Yes	Yes	Yes	Yes	Ye
Oklahoma City	Yes	Yes	Yes					Yes	Yes				Yes	Yes	Yes					Yes											Yes	Yes	Yes		Yes	Ye
Jacksonville		Yes	Yes	Yes				Yes	Yes	Yes			Yes		Yes	Yes				Yes	Yes	Yes									Yes	Yes	Yes	Yes	9000	Ye
Grand Rapids-Kalamazoo-Battle Cre	Yes	Yes	Yes	Yes					Yes				Yes		Yes	Yes					Yes										Yes	Yes	Yes	Yes	Yes	
Birmingham (Anniston and Tuscaloo			Yes	Yes					Yes	Yes						Yes															Yes		Yes		\$000	4
Hamisburg-Lancaster (PA)		Yes		Yes					Yes	Yes						Yes						Yes									Yes	(COMP)	Yes	Yes	riprinces	
Albuquerque-Santa Fe			Yes	0.00					Yes				Yes			Yes						1000									Yes		Yes		1000	-



Selected Areas

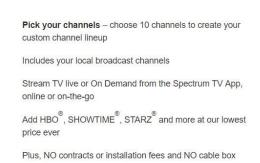
	Α	В	C	D	E	F	G	H	1	J	K	L	M	N	0	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	A	CA	D AE	E AF	AG	AH	Al	AJ	AK A	
1	https://www.cnet.com/news/are-y		[DirecT	V Nov	v				Fub	o TV				Hul	u with	h Live	TV			PI	lay Sta	ation	Vue		S	ling	TV (SI	ling l	Blue	only)			You	ube T	V		
2	Network channel:	ABC	CBS	Fox	NBC	MyTV	CW	ABC C	BS	Fox	NBC N	MyTV	CW	ABC	CBS	Fox	NBC	MyTV	CW	ABC	CBS	Fox	NBO	C MyTV	CW	ABC	CBS	S Fox	: NB	C My	TV CV	V ABC	CB	S Fox	NBC	MyTV	CW	
3	TOP 50 MARKETS	-50																																		150		
4	Tampa-St Petersburg (Sarasota)	Yes	Yes	Yes	Yes		Yes)	es	Yes			Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes						Yes	6			Yes	Ye	s Yes	Yes	Yes	Yes	
5	Detroit	Yes	Yes	Yes	Yes		Yes)	es	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	3				Yes	3			Yes	Ye	s Yes	Yes	Yes	Yes	
6	Minneapolis-St. Paul	Yes	Yes	Yes	Yes	Yes)	es	Yes	Yes			Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	3				Yes	3			Yes	Ye	s Yes	Yes	Yes	Yes	
7	Miami-Ft. Lauderdale	Yes	Yes	Yes	Yes	Yes)	es	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	3					Ye	s		Yes	Ye	s Yes	Yes	Yes		
8	Denver	Yes	Yes	Yes	Yes			1	es	Yes	Yes			Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes	3								Yes	Ye	s Yes	Yes	Yes		
9	Orlando-Daytona Beach-Melbourne	Yes		Yes	Yes	Yes)	es	Yes	Yes			Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes				Yes	3			Yes	Ye	s Yes	Yes	Yes	Yes	
10	Cleveland-Akron (Canton)	Yes	Yes	Yes	Yes)	es	Yes	Yes			Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes	3								Yes	Ye	s Yes	Yes	Yes		
11	Hartford-New Haven	Yes	Yes	Yes	Yes)	es	Yes	Yes			Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes	3					Ye	s		Yes	Ye	s Yes	Yes	Yes		
12																																						
13	Des Moines-Ames	Yes	Yes	Yes)	es	Yes				Yes	Yes	Yes					Yes											Yes	Ye	s Yes	;			
14	Rochester (New York)			Yes												Yes	Yes															Yes	Ye	s Yes	Yes	;		
15	Tulsa	Yes	Yes	Yes	Yes										Yes	Yes	Yes				Yes	Yes										Yes	Ye	s Yes	Yes	Yes	Yes	
16	Youngstown									Yes	Yes					Yes	Yes																					





Product	Hulu	Sling TV	CBS All Access	fuboTV	Amazon Video
	hulu	sling	OCBS ALL ACCESS	fubo"	amazon
Starting Price	\$7.99/month	\$20/month	\$5.99/month	\$44.99/month	\$8.99/month
Product	Philo	Netflix	HBO Now	DirecTV NOW	YouTube TV
rioduct	philo		HBO NOW	DIRECTV N©W	YouTubeTV
Starting Price	\$16/month	\$7.99/month	\$14.99/month	\$40/month	\$40/month

The TV plan you've been waiting for!







Spectrum TV Choice starts by offering the customer the major broadcast networks ABC, FOX, NBC, CW, CBS and PBS as well as the rest of the digital broadcast spectrum and public channels like C-Span and others. You start with that as a base then add 10 cable channels of your choice. All of this for a starting price of \$24.00 (Price reflects fee for broadcast retransmission) plus the cost for local and state taxes. The real cost probably comes to about \$30.00-\$35.00.

For additional fees, customers can add other features like DVR and premium TV channels.



	DirecTV Now	FuboTV	Hulu Live TV	Philo	PS Vue	Sling TV	AT&T WatchTV	YouTube TV
Apple TV	1	✓	✓	✓	✓	✓	1	1
Android TV		✓			✓	✓		✓
Chromecast	✓	1	1		✓	1	✓	✓
Fire TV/Stick	1	✓	1	✓	✓	✓		
PlayStation 3					√	8		
PlayStation 4					1			
Roku	/	√	✓	√	1	1	/	√
Xbox One			1			1		√
Xbox 360			1				82	
LG TVs			1			✓		✓
Samsung TVs	1		1		, i	1		✓
iOS	1	√	1		✓	✓	1	✓
Android	1	✓	1		1	1	1	√
PC						1		
Mac						1		
Web	1	√	√	✓	√	✓	/	✓

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	DirecTV Now	FuboTV	Hulu Live TV	Philo	PS Vue	Sling TV Orange	Sling TV Blue	AT&T WatchTV	YouTube TV
Base Monthly Price	\$40	\$45	\$40	\$16	\$45	\$25	\$25	\$15	\$40
Simultaneous Streams	2	2	2	3	3 (or 5, with PS3 and PS4 at home)	1	3	1	3
Purchase more streams	\$5/mo for third stream	\$6/mo for third stream	\$15/mo: Unlimited in-home, 3 out-of-home	9 <u>720.</u> 9230	-	1000	(1	===	-
DVR	✓	√	✓	✓	✓	\$5/mo (No Disney-owned channels)	\$5/mo		✓
DVR Time Limit	30 Days	None	None	30 Days	28 Days	None	None	N/A	9 Months
DVR Storage Limit	20 hours	30 Hours	50 Hours	Unlimited	Unlimited	50 Hours	50 Hours	N/A	Unlimited
DVR Storage Upgrade	N/A	\$10/mo: 500 Hours	\$15/mo: 200 Hours	122		-	-	N/A	
DVR Allows Ad- Skipping	√	✓	w/ Storage Upgrade	✓	√	✓	✓	N/A	If not on-demand
Device access restrictions	None	None	No TV device streaming outside the home	None	1 TV device stream outside the home (if none are streaming at home)	None	None	None	None
User profiles	1	1	6	1	5	1	1	1	6
60 FPS support	✓	√	Apple TV, iOS, Xbox One, Samsung TVs, Nintendo Switch		PS4, Fire TV boxes, Apple TV, Nvidia Shield TV, Chromecast	ESPN channels only	Fox Sports channels only	✓	Apple TV, Nvidia Shield TV, Roku, Xbox One, Chromecast (2nd gen)
Surround Sound	On-Demand on Apple TV		-	17.7	-		-		-











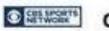








































































travel



























VICELAND





Channel	Sling TV	Hulu Beta	PS Vue	DIRECT	TVYouTube TV	FuboTV	Philo	Watch TV
AFRO	X	Dett.		1011				
AXS TV	X		1	X			X	
A&E	X	X		X	18	X	X	X
AMC	X		X	X	X	X	X	X
American Heroes Channel			Х	Х			X	
Animal Planet			X	X			X	X
Aspire				X				
Audience			12-	X	18			X
Baby TV	X			X	16 :	X		
BBC America	X		X	X	X	X	X	X
BBC World News	X		X	x	X	х	X	х
BeIN Sports	X				16	X		S
BeIN Sports en Espanol		98				х		
BET	X	79		X	-8		X	X
BET Her				X			X	
Big Ten Network		x	x	X	X	X		
Blaze TV	X	99		- 15 - 13	8			
Bloomberg Television	X		x	X				X

AT&T WatchTV channel list:

- A&E
- AMC
- Animal Planet
- Audience
- BBC World News
- BBC America
- Boomerang
- Cartoon Network
- CNN
- Discovery
- Food Network
- FYI
- Hallmark Channel
- Hallmark Movies & Mysteries
- HGTV
- History
- HLN
- IFC
- Investigation Discovery
- Lifetime
- Lifetime Movies
- · OWN
- Sundance TV
- TBS
- TCM
- TLC
- TNT
- TruTV
- Velocity
- Viceland
- WE tv

UPDATE: In addition to the channels on this list, BET, Comedy Central, MTV2, Nicktoons, TeenNick and VH1 were added to WatchTV in late July 2018. See Clark's channel comparison chart here.















Fire TV Stick with Alexa Voice Remote... Amazon ★★★★ 195,182

\$24.99 **vprime**

Fire TV with 4K Ultra HD and Alexa Voice Remote...

Amazon ★★★☆☆ 22,376 \$69.99 **vprime**



Fire TV Cube | Hands-Free with Alexa and 4K... Amazon ★★☆☆☆ 4,521 \$79.99 **vprime**



Toshiba 43-inch 4K Ultra HD Smart LED TV with... **食食食食**食 1,091 \$329.99 **vprime**

TOSHIBA | firety edition

Toshiba 32-inch 720p HD Smart LED TV - Fire TV... \$179.99 **vprime**



Fire TV Stick with Alexa Voice Fire TV Cube + Cloud Cam Remote + Echo Dot Security Camera Amazon ★★★★ 195,182

\$74.98 **vprime**

Amazon 食食食食食 4,521 \$199.98 **vprime**



Fire TV with 4K Ultra HD + HD Antenna Amazon ★★★☆☆ 22,376

\$74.99 **vprime**



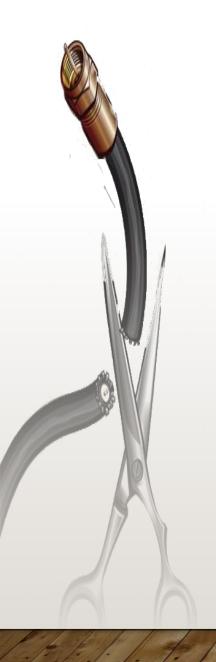
Roku on a TV





Roku TV





Broadcast Networks















Video Index Sites

Huge TV

Reel good



dailymotion

Lunch Time



Video Websites











PTA (Travel)

Pluto TV

Shout Factory

Movies





YouTube Movies

Vudu Movies Tubi TV

Classic Cinema



Sports Services

NBA League Pass

Price: \$199.99/year, or \$119.99/year for the single-team plan. Individual games can be ordered for \$6.99 each

NHL.TV

Price: \$139.96/year or \$24.99/month, or \$111.96/year for the single-team option

MLS Live

Price: \$74.99

FuboTV

Price: \$9.99/month



DIGITAL TRENDS





MOVIES & TV

How to watch NFL games online, with or without cable

By Ryan Waniata — Posted on September 20, 2018 - 3:02PM

https://www.digitaltrends.com/movies/how-to-watch-nfl-games-online/



Whether you're joining the cord-cutting revolution, have a fantasy football dynasty, or you live outside your team's market, you need a good way to get your NFL fix online. Unfortunately, while the options are many, they're also extremely complicated.

To help, we've compiled this comprehensive guide on how to stream the entire 2018/2019 season, from the opening kickoff to the playoffs. So put on your jersey and find a comfortable spot to kick back; here's your (digital) ticket to the NFL.









ABC7 Sarasota Tampa



KHOU



KSWB - FOX 5 San Diego



WFTV Eyewitness News...









Sample News Channels on Roku







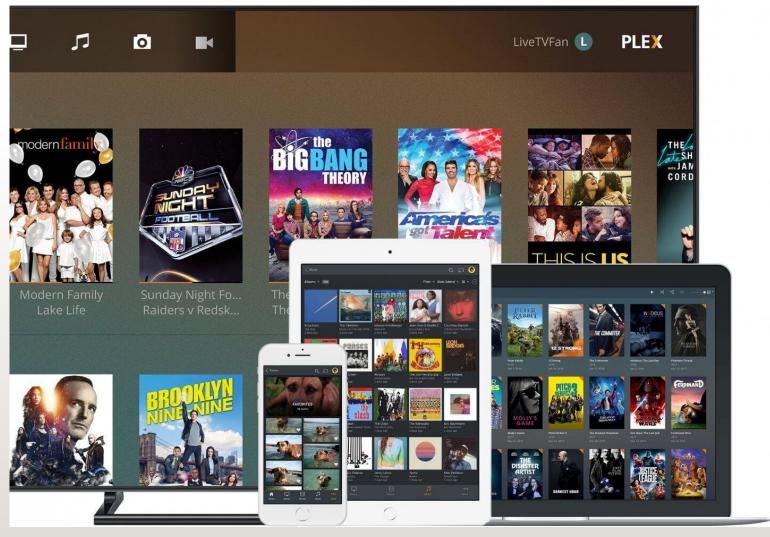


Other Choices





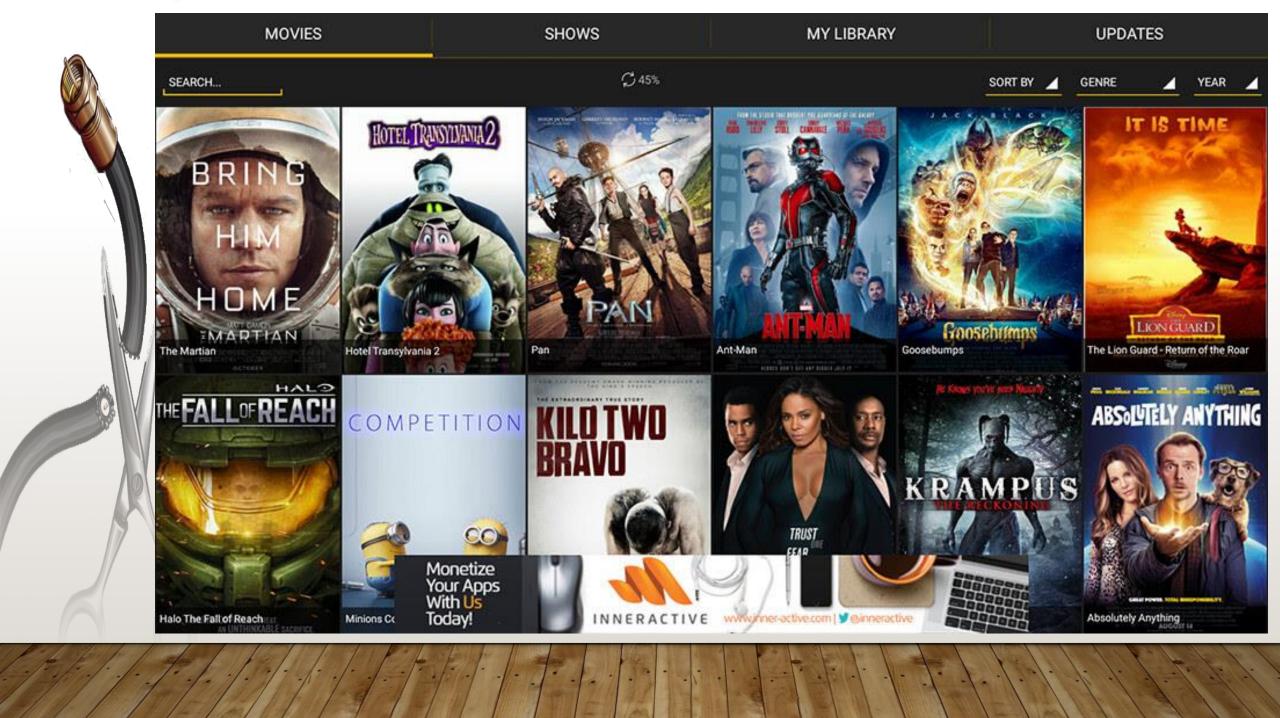


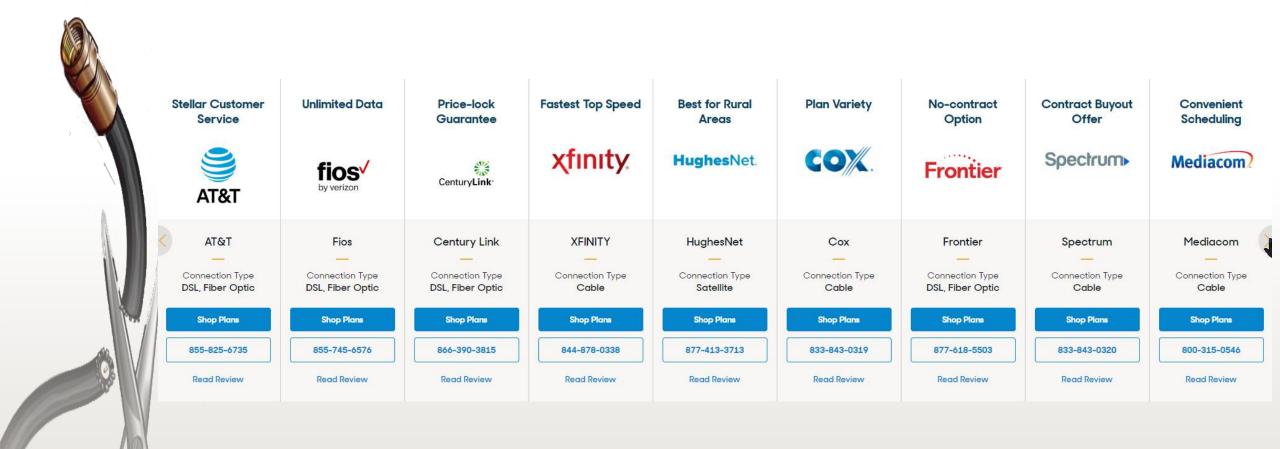














AT&T U-verse









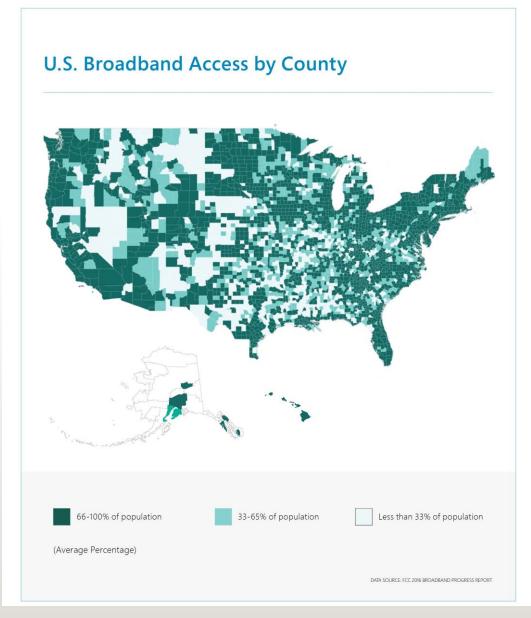




Verizon FiOS







This dynamic map shows the proportion of individuals who have access to broadband in each county in the US, based on the Federal Communications Commission's Broadband Progress Report 2016.

The lighter the color the lower the broadband access in that county.

23.4 million Americans in rural communities lack broadband internet access.

In the United States 99.73% of the population has access to Broadband Internet and the average home download speed is 6.70215 Mbps. 2.97% of the population does not have access to wired broadband Internet Access.



Microsoft's Airband Initiative

Microsoft has partnered with Network Business Systems with a plan to eliminate the rural broadband gap in the US over a 5 year span. The Initiative includes bringing internet access to 2 million residents, along with providing technology training and investing in new tech programs that will benefit rural areas.

On Thursday, September 13, 2018, the two companies announced their partnership in an effort to bring internet service to around 126,700 residents in rural communities throughout lowa, Illinois, and South Dakota.



Number of Devices	Light Use	Moderate Use	High Use	Very High Use
1-3	5- 1 0 Mbps	15 Mbps	25 Mbps	50 Mbps
4-8	15 Mbps	25 Mbps	50 Mbps	100 Mbps
8-10	25 Mbps	50 Mbps	100 Mbps	150 Mbps
10+	50 Mbps	100 Mbps	150 Mbps	200+ Mbps

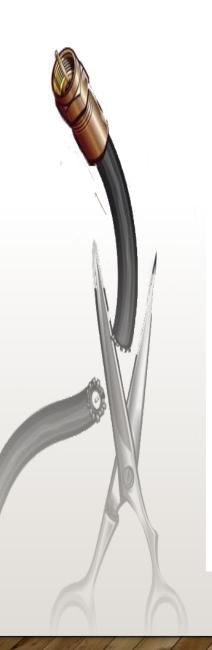
Light use: emails, web browsing, social media, SD video streaming

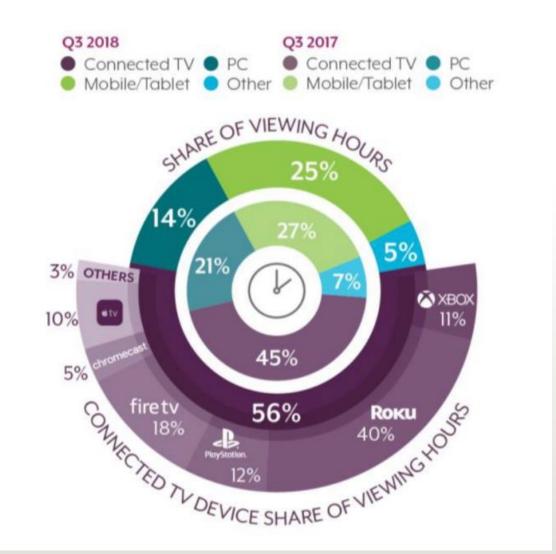
Moderate use: music streaming, occasional online gaming, streaming HD video

on one or two devices

High use: Multiple devices streaming HD video simultaneously, real-time gaming, video conferencing

Very high use: Multiple devices streaming HD or 4K video simultaneously, large file downloading, real-time gaming, video conferencing





Share of Viewing Hours

Connected TVs 56 % share

Mobile's 25 % share.



Cable-Cutting Issues

- The new live services have buffering issues
- It's impossible to get every channel you had before
- Streaming live sports can be particularly tricky
- Internet problems can mess with streaming
- You might have to fight your cable company
- The shows and movies you thought were on streaming might not be there anymore or might be leaving soon









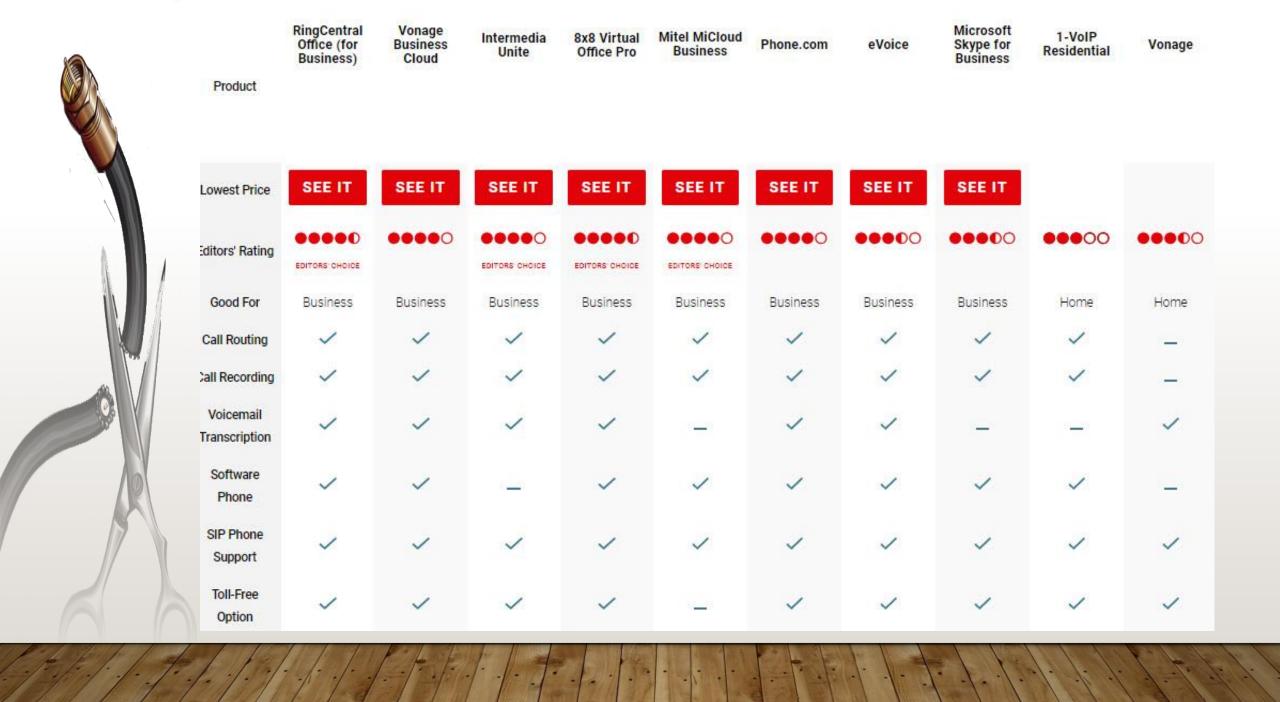








III Dialpad





Google Voice

Google LLC Communication



1 This app is compatible with all of your devices.



Google Voice with OBi

Works with Google Voice











You purchased this item on September 1, 2015. View this order













OBi200 1-Port VolP Phone Adapter with Google Voice and Fax Support for Home and SOHO Phone Service

by Obihai

常常常常宝 * 3,056 customer reviews

953 answered questions

Amazon's Choice for "obi200"

List Price: \$89.99

Price: \$46.98 **vprime** | FREE Same-Day

You Save: \$43.01 (48%)

Get \$70 off instantly: Pay \$0.00 upon approval for the

Amazon Prime Rewards Visa Card.

Service: Get professional installation Details

Without expert installation



magicJackgo

Home and "On-the-Go" Phone Service

FREE 12 MONTHS of service included

UNLIMITED local & long-distance calling to the U.S., Canada, Puerto Rico, & the U.S. Virgin Islands

SAVE up to \$381 per year!



ADD TO CART

Limited Time Online Offer!







First time customer?

Start enjoying ultra low-cost VoIP phone service today with a magicJackGO (12 Free Months Included).

GET NOW

More Info



Returning customer?

After your initial service ends, continue enjoying unlimited, crystal clear calls with our flexible, low-cost plans. Less than \$2.50/mo with our best plans!

RENEW NOW

Most Popular

\$39

YEAR PLAN

Best Value

\$89

YEAR PLAN







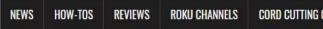


Cordcutting.com

https://cordcutting.com/

My Favorite resource for cord cutting news, tips, how-tos, and reviews.

CORDCUTTING.COM



Cordcutters https://www.cordcutters.com/ Cordcutter News, Guides & Forums



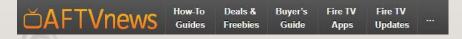
/r/CordCutters

https://www.reddit.com/r/cordcutters/
Reddit's /r/CordCutters is a discussion
board full of helpful and passionate
cord cutters.



AFTVnews

http://www.aftvnews.com/
An Amazon Fire TV specific news source.



/r/Over the air cord cutting resources

https://www.reddit.com/r/ota/ Reddit's /r/OTA is your source for antennarelated questions.



Cordkillers

http://www.cordkillers.com/
The Cordkillers podcast with Tom Merritt
and Brian Brushwood as well as guests.





This information is very fluid. As I put this presentation together, topics, services, & hardware changed almost daily. This presentation is meant to help you understand the big picture of "cutting the cord." The specifics may no longer be accurate, but I have given you a place to start your research as to the best solution for your television choices.

SURVEY

- Please remember to fill out the survey on line.
- You can wait until later, but do not forget.
- Use this link

http://bit.ly/cutthecordsurvey







Cut the Cord - Things to consider before firing your cable company

info@hewie.net



http://bit.ly/cutthecordsurvey