



Set-top Box Qualified Product List

List Posted on August 15, 2012

Below are currently qualified ENERGY STAR models available for sale in the U.S. and Canada.

Please note that cable, satellite, and telecom service providers may not carry all models of boxes. Please check with your specific service provider for assistance obtaining an ENERGY STAR qualified set-top box.

| Company Name | Brand Name | Model Name | Model Number | Base Functionality | Additional Functionalities Present ¹ | ENERGY STAR Qualified for Single-room Operation | ENERGY STAR Qualified for Multi-room Operation | Does Product Incorporate Auto-Power Down? (Y/N) | Does Product Incorporate Deep Sleep State? (Y/N) | Single-room Configuration Test Results | | | | Multi-room Configuration Test Results ² | | | | Date Qualified | Date Available on the Market | Available at Retail? |
|-----------------|------------|-------------------------------|----------------------|--------------------|---|---|--|---|--|--|--------------------------------|--------------------------------------|--|--|--------------------------------|--------------------------------------|--|----------------|------------------------------|----------------------|
| | | | | | | | | | | Tested Power in On Mode (W) | Tested Power in Sleep Mode (W) | Tested Power in Deep Sleep State (W) | Total Energy Consumption (TEC) ³ (kWh/yr) | Tested Power in On Mode (W) | Tested Power in Sleep Mode (W) | Tested Power in Deep Sleep State (W) | Total Energy Consumption (TEC) ³ (kWh/yr) | | | |
| Apple Inc. | Apple | Apple TV | MC572 | IP | Adv. Video Processing, HD, Home Network Interface | Yes | No | Yes | No | 2.1 | 0.2 | | 7 | | | | | 08/15/2011 | 09/01/2011 | Yes |
| Apple Inc. | Apple | Apple TV | MD199 | IP | Adv. Video Processing, HD, Home Network Interface | Yes | No | Yes | No | 2.0 | 0.2 | | 6 | | | | | 04/04/2012 | 03/07/2012 | Yes |
| Arris Group Inc | ARRIS | Media Player | MP2000NA | Thin-client/Remote | HD, Home Network Interface | Yes | No | No | No | 9.12 | | | 54 | | | | | 9/26/2011 | 7/1/2011 | No |
| Cisco Systems | Cisco | ISB7500 | ISB7500 | IP | Advance Video Processing, High Definition, Home Network Interface, Digital Video Recorder (DVR) | Yes | No | No | No | 18 | 14.6 | | 145 | | | | | 08/26/2011 | 09/01/2011 | No |
| Cisco Systems | Cisco | ISB7050 | ISB7050 | IP | Advance Video Processing, High Definition, Home Network Interface, Digital Video Recorder (DVR) | Yes | No | No | No | 18 | 14.6 | | 145 | | | | | 08/26/2011 | 09/01/2011 | No |
| Cisco Systems | Cisco | ISB7000 | ISB7000 | IP | Advance Video Processing, High Definition, Home Network Interface | Yes | No | No | No | 11.8 | 11.9 | | 103 | | | | | 08/23/2011 | 09/01/2011 | No |
| Cisco Systems | Cisco | ISB7100 | ISB7100 | IP | Advance Video Processing, High Definition, Home Network Interface | Yes | No | No | No | 11.8 | 11.9 | | 103 | | | | | 08/23/2011 | 09/01/2011 | No |
| Cisco Systems | Cisco | ISB7005 | ISB7005 | IP | Advance Video Processing, High Definition, Home Network Interface | Yes | No | No | No | 11.6 | 11.4 | | 101 | | | | | 08/26/2011 | 09/01/2011 | No |
| Cisco Systems | Cisco | 8642HD | 8642HD | Cable | Adv. Video Processing, DVR, DOCSIS, HD, Multi-room, Multi-stream – Cable/Satellite | Yes | Yes | No | No | 24.5 | 22.9 | | 208 | | | | | 08/26/2011 | 09/01/2011 | No |
| Cisco Systems | Cisco | Explorer 4642HD | Explorer 4642HD | Cable | Advance Video Processing, DOCSIS, High Definition, Home Network Interface | Yes | No | No | No | 14.9 | 11.7 | | 119 | | | | | 08/23/2011 | 09/01/2011 | No |
| Cisco Systems | Cisco | DTA 170HD | DTA 170HD | Cable | HD | Yes | No | No | No | 4.9 | 5.1 | | 43 | | | | | 08/31/2011 | 09/01/2011 | No |
| Cisco Systems | Cisco | CIS430 p/n 4034511 | CIS430 p/n 4034511 | IP | Adv. Video Processing, DVR, HD, Home Network Interface | Yes | No | No | No | 16.6 | 11.2 | | 126 | | | | | 10/03/2011 | 03/01/2011 | No |
| Cisco Systems | Cisco | CIS430 p/n 4034511-5 | CIS430 p/n 4034511-5 | IP | Adv. Video Processing, DVR, HD, Home Network Interface | Yes | No | No | No | 16.2 | 11.6 | | 124 | | | | | 10/20/2011 | 03/01/2011 | No |
| Cisco Systems | Cisco | Explorer 8642 HDC | Explorer 8642 HDC | Cable | Adv. Video Processing, CableCARD, DVR, DOCSIS, HD, Multi-room, Multi-stream – Cable/Satellite | Yes | Yes | No | No | 27.6 | 21.6 | | 221 | | | | | 10/12/2011 | 06/01/2010 | No |
| Cisco Systems | Cisco | Explorer 4642HDC | Explorer 4642HDC | Cable | Adv. Video Processing, CableCARD, DOCSIS, HD, Home Network Interface | Yes | No | No | No | 17.5 | 13.8 | | 140 | | | | | 10/12/2011 | 06/01/2010 | No |
| Cisco Systems | Cisco | Explorer 8742 HDC | Explorer 8742 HDC | Cable | Adv. Video Processing, CableCARD, DVR, DOCSIS, HD, Home Network Interface, Multi-room | Yes | Yes | No | No | 23 | 18.3 | | 183 | | | | | 06/03/2011 | 05/01/2011 | No |
| Cisco Systems | Cisco | Explorer 4742 HDC | Explorer 4742 HDC | Cable | Adv. Video Processing, CableCARD, DOCSIS, HD, Home Network Interface | Yes | No | No | No | 17 | 13.9 | | 138 | | | | | 06/07/2011 | 06/10/2011 | No |
| Cisco Systems | Cisco | DTA 171HD | DTA 171HD | Cable DTA | HD | Yes | No | No | No | 4.5 | 4.4 | | 39 | | | | | 03/29/2012 | 06/18/2012 | No |
| Cisco Systems | Cisco | ISB7150 | ISB7150 | IP | HD, DVR, Home Network Interface, Adv. Video Processing, Multi-stream – Terrestrial/IP | Yes | No | No | No | 17.64 | 14.6 | | 143 | | | | | 07/12/2012 | 08/01/2012 | No |
| DIRECTV | DIRECTV | DirecTV SD Satellite Receiver | L14-A-700 | Satellite | N/A | Yes | No | No | No | 4.8 | 3.9 | | 39 | | | | | 1/4/2012 | 2/13/2012 | No |
| DIRECTV | DIRECTV | HD Digital Satellite Receiver | H25-100 | Satellite | Advanced Video Processing, HD, Multi-stream - Cable/Satellite, Home Network Interface | Yes | no | No | no | 10.7 | 10.1 | | 92 | | | | | 4/28/2011 | 5/1/2011 | No |
| DIRECTV | DIRECTV | HD DVR | HR24-100 | Satellite | Advanced Video Processing, HD, Multi-stream - Satellite, DVR, Multi-room | No | Yes | no | no | | | | | 22.5 | 22.4 | | | 7/22/2011 | 5/1/2010 | No |
| DIRECTV | DIRECTV | DIRECTV Receiver | L14-100 | Satellite | N/A | Yes | no | no | no | 6.8 | 5.5 | | 55 | | | | | 8/19/2011 | 9/15/2011 | No |



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Please note that cable, satellite, and telecom service providers may not carry all models of boxes. Please check with your specific service provider for assistance obtaining an ENERGY STAR qualified set-top box.

| Company Name | Brand Name | Model Name | Model Number | Base Functionality | Additional Functionalities Present ¹ | ENERGY STAR Qualified for Single-room Operation | ENERGY STAR Qualified for Multi-room Operation | Does Product Incorporate Auto-Power Down? (Y/N) | Does Product Incorporate Deep Sleep State? (Y/N) | Single-room Configuration Test Results | | | | Multi-room Configuration Test Results ² | | | | Date Qualified | Date Available on the Market | Available at Retail? |
|---|------------|-------------------------------|---------------|---------------------|---|---|--|---|--|--|--------------------------------|--------------------------------------|--|--|--------------------------------|--------------------------------------|--|----------------|------------------------------|----------------------|
| | | | | | | | | | | Tested Power in On Mode (W) | Tested Power in Sleep Mode (W) | Tested Power in Deep Sleep State (W) | Total Energy Consumption (TEC) ³ (kWh/yr) | Tested Power in On Mode (W) | Tested Power in Sleep Mode (W) | Tested Power in Deep Sleep State (W) | Total Energy Consumption (TEC) ³ (kWh/yr) | | | |
| DIRECTV | DIRECTV | DIRECTV Receiver | D12-100 | Satellite | N/A | Yes | no | no | no | 7.9 | 6.2 | | 63 | | | | | 8/19/2011 | 8/15/2011 | No |
| DIRECTV | DIRECTV | DIRECTV Satellite Receiver | H25-500 | Satellite | Adv. Video Processing, HD, Home Network Interface | Yes | no | no | no | 12.2 | 11 | | 103 | | | | | 09/09/2011 | 2/1/2011 | No |
| DIRECTV | DIRECTV | DIRECTV HD DVR | H24-500 | Satellite | Adv. Video Processing, DVR, HD, Multi-room, Multi-stream Satellite | No | Yes | no | no | | | | | 24.5 | 22.6 | | 208 | 9/14/2011 | 2/15/2010 | No |
| DIRECTV | DIRECTV | DirecTV SD Receiver | D12-700 | Satellite | N/A | Yes | No | No | No | 6.3 | 5.3 | | 51 | | | | | 10/12/2011 | 5/1/2008 | No |
| DIRECTV | DIRECTV | DirecTV HD STB Receiver | H24-200 | Satellite | Adv. Video Processing, HD, Home Network Interface | Yes | No | No | No | 14 | 11.3 | | 113 | | | | | 10/12/2011 | 11/10/2011 | No |
| DIRECTV | DIRECTV | DirecTV HD Satellite Receiver | H25-700 | Satellite | Adv. Video Processing, HD, Home Network Interface | Yes | No | No | No | 9.7 | 9 | | 83 | | | | | 10/12/2011 | 10/25/2011 | No |
| DIRECTV | DIRECTV | DirecTV HD DVR | HR24-200 | Satellite | Adv. Video Processing, DVR, HD, Multi-room, Multi-stream – Satellite | No | Yes | No | No | | | | | 20 | 21 | | 195 | 10/14/2011 | 10/19/2011 | No |
| Samsung Electronics Co Ltd | DIRECTV | HR24NC-200 | HR24NC-200 | Satellite | Adv. Video Processing, DVR, DOCSIS, HD, Multi-room, Multi-stream – Cable/Satellite | Yes | Yes | No | No | 22.8 | 21.4 | | 195 | 23.3 | 21.3 | | 197 | 8/30/2011 | 9/1/2011 | No |
| DIRECTV | DIRECTV | DirecTV HD Receiver | H24-700 | Satellite | Adv. Video Processing, HD, Home Network Interface | No | No | Yes | No | 13.7 | 11.5 | | 107 | | | | | 5/31/2012 | 5/11/2012 | No |
| Echostar Technologies L.L.C. | Echostar | Joey | Joey | Thin-client/remot e | Adv. Video Processing, HD, Home Network Interface | Yes | No | Yes | No | 9 | 8.6 | | 77 | | | | | 5/9/2012 | 3/15/2012 | No |
| Echostar Technologies L.L.C. | Echostar | 6400-2 | 6400-2 | Satellite | Adv. Video Processing, HD | Yes | No | Yes | No | 7.4 | 7 | | 61 | | | | | 5/9/2012 | 5/25/2012 | No |
| o | Echostar | 9400 | 9400 | Satellite | Adv. Video Processing, HD, Multi-stream – Cable/Satellite, DVR | Yes | No | Yes | No | 14 | 13.8 | | 122 | | | | | 5/9/2012 | 5/25/2012 | No |
| Digital Multimedia Technology Co., Ltd. | Evolution | DMS2004UHD | DMS2004UHD | Cable | HD | Yes | No | No | No | 6.3 | 5.5 | | 52 | | | | | 03/15/2012 | 04/15/2012 | No |
| Digital Multimedia Technology Co., Ltd. | Evolution | DMS2004UHD W | DMS2004UHD W | Cable | HD | | | | | 6.80 | 5.97 | | 57 | | | | | 3/27/2012 | 4/30/2012 | No |
| Funai Corporation, Inc. | FUNAI | NetBOX | TB600FX2 | IP | Adv. Video Processing, HD, Home Network Interface | Yes | No | Yes | Yes | 5.6 | 0.7 | 0.68 | 31 | | | | | 6/28/2011 | 9/1/2011 | Yes |
| Digital Multimedia Technology Co., Ltd. | HD-ADD | DMT-200HD | DMT-200HD | Cable DTA | HD | Yes | No | No | No | 6.5 | 5.9 | | 55 | | | | | 12/12/2011 | 09/30/2011 | No |
| Funai Corporation, Inc. | MAGNAVOX | NetBOX | TB600MG2F/ F7 | IP | Adv. Video Processing, HD, Home Network Interface | Yes | No | Yes | Yes | 5.6 | 0.7 | 0.68 | 31 | | | | | 6/8/2011 | 11/1/2011 | Yes |
| Motorola (Mobility, General Instrument Corp) | Motorola | IPTV Set- Top Box | VIP1225 | IP | Adv. Video Processing (MPEG4), HD, DVR, Home Network Interface, Multi-stream – IP, Multi-room | Yes | No | no | no | 15.7 | 11.8 | | 124 | | | | | 9/9/2011 | 12/1/2008 | No |
| Motorola (Mobility, General Instrument Corp) | Motorola | IPTV Set- Top Box | VIP1232 | IP | Adv. Video Processing (MPEG4), HD, DVR, Home Network Interface, Multi-stream – IP, Multi-room | Yes | No | no | no | 16.2 | 12.6 | | 129 | | | | | 9/9/2011 | 12/1/2010 | No |
| Motorola Mobility, General Instrument Corporation | Motorola | IPTV | VIP1002 | IP | Adv. Video Processing, HD, Home Network Interface, Multi-stream – IP, Multi-room | Yes | No | no | no | 9.1 | 9.2 | | 80 | | | | | 9/9/2011 | 12/1/2010 | No |
| Motorola Mobility, General Instrument Corporation | Motorola | IPTV Set- Top Box | VIP2250 | IP | Adv. Video Processing (MPEG4), HD, DVR, Home Network Interface, Multi-stream – IP, Multi-room | Yes | No | no | no | 17.7 | 14.4 | | 143 | | | | | 9/14/2011 | 9/1/2010 | No |
| Motorola Mobility, General Instrument Corporation | Motorola | IPTV Set- Top Box | VIP2262 | IP | Adv. Video Processing (MPEG4), HD, DVR, Home Network Interface, Multi-stream – IP, Multi-room | Yes | No | no | no | 17.7 | 14.4 | | 143 | | | | | 9/14/2011 | 9/1/2010 | No |



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| Motorola Mobility, General Instrument Corporation | Motorola | IPTV Set- Top Box | VIP2102 | IP | Adv. Video Processing (MPEG4), HD, Home Network Interface, Multi-stream – IP, Multi-room | Yes | No | no | no | 9.8 | 9.6 | | 85 | | | | 9/26/2011 | 3/1/2009 | No | |
| Motorola Mobility, General Instrument Corporation | Motorola | IPTV Set-Top Box | VIP1200 | IP | Adv. Video Processing (MPEG4), HD, Home Network Interface, Multi-stream – IP, Multi-room | Yes | No | no | no | 10.9 | 10.5 | | 94 | | | | 9/26/2011 | 3/1/2009 | No | |
| Motorola Mobility, General Instrument Corporation | Motorola | IPTV Set-Top Box | VIP2200 | IP | Adv. Video Processing (MPEG4), HD, Home Network Interface, Multi-stream – IP | Yes | No | no | no | 11.3 | 11.2 | | 98 | | | | 9/26/2011 | 9/1/2010 | No | |
| Motorola Mobility, General Instrument Corporation | Motorola | IPTV Set-Top Box | VIP2202 | IP | Adv. Video Processing (MPEG4), HD, Home Network Interface, Multi-stream – IP | Yes | No | no | no | 11.3 | 11.2 | | 98 | | | | 9/26/2011 | 9/1/2010 | No | |
| Motorola Mobility, General Instrument Corporation | Motorola | Cable Set-Top Box | DCX3510 | Cable | Adv. Video Processing, CableCARD, DVR, DOCSIS, HD, Home Network Interface, Multi-stream – Cable, Multi-room | Yes | Yes | No | No | 21.5 | 19.1 | | 180 | | | | 10/11/2011 | 8/2/2011 | No | |
| Motorola Mobility, General Instrument Corporation | Motorola | Cable Set-Top Box | DCX700-M | Cable | Adv. Video Processing, CableCARD, HD, Home Network Interface | Yes | No | Yes | No | 13.9 | 10.7 | | 102 | | | | 10/11/2011 | 6/1/2010 | No | |
| Motorola Mobility, General Instrument Corporation | Motorola | Cable Set-Top Box | DCX3501 | Cable | Adv. Video Processing, CableCARD, DVR, DOCSIS, HD, Home Network Interface, Multi-stream – Cable, Multi-room | Yes | No | Yes | No | 24.9 | 17.1 | | 170 | | | | 10/11/2011 | 11/2/2010 | No | |
| Motorola Mobility, General Instrument Corporation | Motorola | IPTV Set-Top Box | VIP2100 | IP | Adv. Video Processing (MPEG4), HD, Home Network Interface, Multi-stream – IP, Multi-room | Yes | No | No | No | 9.8 | 9.6 | | 85 | | | | 9/26/2011 | 9/26/2011 | No | |
| Motorola Mobility, General Instrument Corporation | Motorola | Set-Top Box | QIP7232 | Cable | Adv. Video Processing, CableCard, Multi-room, DVR, HD, Multi-stream – Cable | No | Yes | Yes | No | | | | | 21.9 | 21.6 | | 190 | 3/30/2012 | 10/2/2009 | No |
| Motorola Mobility, General Instrument Corporation | Motorola | Set-Top Box | QIP7100 | Cable | Adv. Video Processing, CableCard, HD, Home Network Interface | Yes | No | Yes | No | 15.3 | 11.5 | | 111 | | | | 3/20/2012 | 10/2/2009 | No | |
| Pace plc | Pace | RNG110 | B9793438000 | Cable | Adv. Video Processing, CableCARD, DOCSIS, HD | Yes | No | No | No | 12.8 | 12 | | 109 | | | | 2/8/2012 | 12/12/2009 | No | |
| Pace plc | Pace | RNG110RF | C5453370800 | Cable | Adv. Video Processing, CableCARD, DOCSIS, HD | Yes | No | No | No | 12.3 | 11.5 | | 105 | | | | 03/02/2012 | 04/10/2010 | No | |
| Pace plc | Pace | RNG200N | B9503339100 | Cable | Adv. Video Processing, DVR, DOCSIS, HD, Multi-stream – Cable/Satellite | Yes | No | No | No | 16.8 | 15 | | 141 | | | | 3/21/2012 | 10/1/2010 | No | |
| Pace plc | Pace | RNG200N | C0203339900 | Cable | Adv. Video Processing, CableCARD, DVR, DOCSIS, HD, Multi-stream – Cable/Satellite | Yes | No | No | No | 17.7 | 15.7 | | 147 | | | | 3/20/2012 | 9/1/2010 | No | |
| Pace plc | Pace | RNG150N | B9493339200 | Cable | Adv. Video Processing, DOCSIS, HD, Home Network Interface, Multi-stream – Cable/Satellite | Yes | No | No | No | 16.3 | 15.4 | | 139 | | | | 3/20/2012 | 10/1/2010 | No | |
| Pace plc | Pace | RNG150N | C0193340000 | Cable | Adv. Video Processing, CableCARD, DOCSIS, HD, Home Network Interface, Multi-stream – Cable/Satellite | Yes | No | No | No | 16.4 | 15.2 | | 139 | | | | 3/21/2012 | 9/1/2010 | No | |
| Pace plc | Pace | RNG150 P2 | RNG150 P2 | Cable | Adv. Video Processing, CableCARD, DOCSIS, HD | Yes | No | No | No | 11.4 | 10.6 | | 97 | | | | 3/20/2012 | 4/9/2010 | No | |
| Pace plc | Pace | DC60Xu | DC60Xu | Cable DTA | HD | Yes | No | No | No | 6.35 | 6.35 | | 56 | | | | 3/22/2012 | 4/2/2012 | No | |
| Pace PLC | Pace | SD Micro DTA | DC50Xu | Cable DTA | N/A | Yes | No | No | No | 3.3 | 3.3 | | 29 | | | | 05/14/2012 | 01/12/2011 | No | |
| Pace PLC | Pace | IPH8000M | IPH8000M | IP | Adv. Video Processing, HD, Home Network Interface | Yes | No | No | No | 8.9 | 8.3 | | 76 | | | | 06/21/2012 | 07/16/2012 | No | |
| Samsung Electronics Co Ltd | Samsung | SMT-H3362 | SMT-H3362 | Cable | Adv. Video Processing, CableCARD, DOCSIS, HD, Multi-room | Yes | Yes | Yes | No | 14.6 | 14.5 | | 128 | | | | 6/1/2011 | 7/11/2011 | No | |



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|----------------------------|------------|----------------------|--------------|--------------------|--|---|--|---|--|--|--------------------------------|--------------------------------------|--|--|--------------------------------|--------------------------------------|--|----------------|------------------------------|----------------------|
| | | | | | | | | | | Tested Power in On Mode (W) | Tested Power in Sleep Mode (W) | Tested Power in Deep Sleep State (W) | Total Energy Consumption (TEC) ³ (kWh/yr) | Tested Power in On Mode (W) | Tested Power in Sleep Mode (W) | Tested Power in Deep Sleep State (W) | Total Energy Consumption (TEC) ³ (kWh/yr) | | | |
| Samsung Electronics Co Ltd | Samsung | SMT-C8340 | SMT-C8340 | Cable | Adv. Video Processing, CableCARD, DOCSIS, HD, Multi-room | Yes | Yes | Yes | No | 26.6 | 25.6 | | 229 | 26.9 | 26 | | 232 | 6/27/2011 | 7/11/2011 | No |
| Sony Electronics Inc. | SONY | NETWORK MEDIA PLAYER | SMP-N200 | IP | Adv. Video Processing, HD, Home Network Interface | Yes | No | Yes | No | 8 | 5.9 | | 58 | | | | | 8/11/2011 | 10/01/2011 | Yes |
| Sony Electronics Inc. | SONY | NETWORK MEDIA PLAYER | SMP-NX20 | IP | Adv. Video Processing, HD, Home Network Interface | Yes | No | Yes | No | 8 | 5.9 | | 58 | | | | | 8/11/2011 | 10/01/2011 | Yes |
| Sony Electronics Inc. | SONY | NETWORK MEDIA PLAYER | NSZ-GS7 | IP | Adv. Video Processing, HD, Home Network Interface, | Yes | Yes | Yes | Yes | 7.9 | 0.23 | | 21.6 | | | | | 4/24/2012 | 06/15/2012 | Yes |
| Sony Electronics Inc. | SONY | NETWORK MEDIA PLAYER | NSZ-GX70 | IP | Adv. Video Processing, HD, Home Network Interface, | Yes | Yes | Yes | Yes | 7.9 | 0.23 | | 21.6 | | | | | 4/24/2012 | 06/15/2012 | Yes |
| VIZIO, Inc. | VIZIO | VAP430 | VAP430 | IP | Adv. Video Processing, Removable Media Player | Yes | No | No | No | 7.2 | 0.48 | | 38.3 | | | | | 05/03/2012 | 05/20/2012 | No |
| Digital Multimedia Technol | Xfinity | DC10HD | DC10HD | Cable | HD | Yes | No | No | No | 6.3 | 5.5 | | 52.2 | | | | | 3/27/2012 | 8/15/2012 | No |
| Digital Multimedia Technol | Xfinity | WC10HD | WC10HD | Cable | HD | Yes | No | No | No | 6.8 | 6.0 | | 56.5 | | | | | 3/27/2012 | 8/15/2012 | No |

¹ Additional functionalities may be present in the model but not tested by ENERGY STAR.

² In homes that seek to view programming on multiple TVs, EPA wishes to encourage deployment of ENERGY STAR qualified set-top box

³ The estimate of total energy consumption over a year is calculated based on US average TV viewing patterns.

Set-top Box (STB) Qualified Product List Column Definitions

Brand Name & Model Name: Identifiers assigned to a product or family/series of products for sales and marketing purposes.

Model Number: Identifier assigned by the manufacturer to a unique product or a family/series of products.

Base Functionality (Product Type): The primary means of access to video content for a STB. All of the following base types may be configured as a simple STB that provides a single primary function, or as part of a complex STB that provides a primary function and one or more additional functionalities.

- a. *Cable* - receives television signals from a broadband, hybrid fiber/coaxial, or community cable distribution system with conditional access
- b. *Satellite* - receives television signals from satellites
- c. *Internet Protocol (IP)* - receives television/video signals encapsulated in Internet Protocol (IP) packets
- d. *Cable Digital Transport Adapter (DTA)* - a minimally-configured STB whose primary function is to receive television signals from a broadband, hybrid fiber/coaxial, or community cable distribution system
- e. *Terrestrial* - receives television signals over the air or via community cable distribution system without conditional access
- d. *Thin-client/Remote* - A STB that (1) is designed to interface between a Multi-room STB and a TV (or other output device), (2) has no ability to directly interface with a Service Provider, and (3) relies solely on a Multi-room STB for content

Additional Functionalities Present: Indicates that the product has one or more of the following functionalities in addition to the base functionality. Additional functionalities such as Multi-room may be present but not tested by ENERGY STAR. Columns G and H denote whether or not a model is tested and ENERGY STAR qualified for single-room and multi-room operation.

- a. *Adv. Video Processing* - capability to encode, decode, and/or transcode audio/video signals
- b. *CableCARD* - capability to decrypt premium audio/video content and services and provide other network control functions via a plug-in conditional access module.
- c. *Digital Video Recorder (DVR)* - capability to store video in a digital format to a rewritable disk drive or other non-volatile storage device integrated into the STB
- d. *DOCSIS®* - The capability to distribute data and audio/video content over cable television infrastructure.
- e. *High Definition (HD) Resolution* - capability to transmit or display video signals with resolution greater than or equal to 720p
- f. *Home Network Interface* - capability to interface with external devices over a high bandwidth network (e.g., WiFi, MoCA, HPNA)
- g. *Multi-room* - capability to provide independent audio/video content to multiple devices within a single family dwelling
- h. *Multi-stream* - capability to deliver two or more simultaneous audio/video streams to a consumer display, thin-client/remote STB, or recording device

- i. *Removable Media Player* - capability to decode digitalized audio/video signals on DVD or Blu-ray Disc optical media
- j. *Removable Media Player / Recorder* - capability to decode and record digitalized audio/video signals on DVD or Blu-ray Disc optical media

ENERGY STAR Qualified for Single-room Operation: This column indicates the product qualifies for ENERGY STAR when providing content to only one TV (or other output device).

ENERGY STAR Qualified for Multi-room Operation: STBs with multi-room capability may be installed to provide independent audio/video content to multiple devices within a single family home. This column indicates that the product qualifies for ENERGY STAR when providing content to more than one TV (or other output device).

Does Product Incorporate Deep Sleep State? (Y/N): This column indicates whether or not the product incorporates a state within Sleep mode characterized by reduced power consumption.

Does Product Incorporate Auto-Power Down? (Y/N): The column indicates whether or not the product has the capability to switch itself from On mode to Sleep mode after a predetermined period of time.

The following four columns are reported test values for the product in single-room configuration and multi-room configuration as applicable. A set-top box may be qualified for multi-room operation solely on the basis of tests performed in a single-room configuration (if the tested energy consumption is low enough, per Section 3.4.1.i of the ENERGY STAR Eligibility Criteria for Set-top Boxes). Multi-room test results will be omitted in such cases.

Tested Power in On Mode (W): Measured power according to the ENERGY STAR STB Test Method with the product activated and providing one or more primary functions such as delivery of live or recorded audio/video content.

Tested Power in Sleep Mode (W): Measured power according to the ENERGY STAR STB Test Method where the product is connected to the mains power source, is not providing a primary function, and offers one or more user oriented or protective functions such as internal sensors, clocks, and facilitation of remote control activation/deactivation.

Tested Power in Deep Sleep State (W): Measured power according to the ENERGY STAR STB Test Method with the product in Deep Sleep State.

Total Energy Consumption (TEC) (kWh/yr): Calculation of expected energy consumption for a typical user over a one year period; expressed in units of kWh/year. Actual annual energy consumption will vary depending on usage patterns.

Date Qualified: The date that an EPA-recognized Certification Body certified the product to the ENERGY STAR specification.

Date Available on the Market: The date that the product is available to consumers either through a service provider or for purchase at retail.

Available at Retail?: This column indicates with or not the product is available at retail (in-store or online). STBs are also provided to end users through service providers. A service provider is a business entity that provides audio/video content to subscribers with whom it has an ongoing contractual relationship. A service provide distributes ENERGY STAR qualified STBs to end users under a lease or rental agreement.

Key Efficiency Criteria

Qualified models meet all ENERGY STAR requirements as listed in the Version 3.0 ENERGY STAR Program Requirements for Set-top Boxes that are effective as of September 1, 2011.

| Table 1: Base Functionality Annual Energy Allowance | |
|--|--|
| Base Functionality | Version 3.0 Energy Allowance (kWh/year) |
| Effective Dates | On and after 9/1/11 |
| Cable | 60 |
| Satellite | 70 |
| Cable DTA | 35 |
| IP | 50 |
| Terrestrial | 22 |
| Thin-Client/Remote [9] | 35 |

| Table 2: Additional Functionality Annual Energy Allowance | |
|--|--|
| Additional Functionalities | Version 3.0 Energy Allowance (kWh/year) |
| Effective Dates | On and after 9/1/11 |
| Additional Tuners/Multi-Stream – Cable/Satellite[2] | 16 |
| Additional Tuners/Multi-Stream – Terrestrial/IP[2] | 8 |
| Adv. Video Processing[4] | 12 |
| CableCARD[7] | 15 |
| Digital Video Recorder (DVR) | 45 |
| DOCSIS[8] | 20 |
| High Definition[1,5] | 25 |
| Home Network Interface [3] | 10 |
| Multi-Room[3,6] | 40 |
| Removable Media Player | 8 |
| Removable Media Player/Recorder | 10 |

To calculate the ENERGY STAR allowance for a given device, take the sum of the base functionality allowance and all applicable additional functionalities allowances (if present). This sum is the calculated annual kWh limit, or TEC value. This sum equals the maximum amount of energy the box can use in a given year as calculated following the ENERGY STAR test procedure.

Annual Energy Allowance (kWh/year) = Base Functionality Allowance + Additional Functionalities Allowance

Notes:

- [1] The High Definition allowance is the only additional functionality allowance that may be applied to STBs with
- [2] Additional Tuners/Multi-Stream adder applies only once, regardless of the number of tuners/streams.
- [3] The Multi-Room allowance may not be combined with the Home Network Interface allowance on a single
- [4] The Adv. Video Processing adder only applies once per box and can not be applied multiple times.
- [5] Credit for High Definition applies to all STBs except those with Base Functionality of TERRESTRIAL.
- [6] The Multi-room adder applies only once, regardless of the number of rooms served by the device.
- [7] The cable card adder can be applied on a per cable card basis in Version 2.0, but only once per STB in
- [8] OEMs must test with DOCSIS enabled if DOCSIS is present. Service providers can test with it and take the
- [9] The Advanced Video Processing, Home Network Interface, High Definition, Removable Media Player, and