SAFETY CONCERNS

The purpose of the Safety Concerns section is to ensure the safety of users and prevent property damage. Please read this document carefully for proper use.

Conventions

<table>
<thead>
<tr>
<th>Conventions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Warning</strong></td>
<td>Provides information or instructions that you should follow in order to avoid personal injury or fatality.</td>
</tr>
<tr>
<td><strong>Caution</strong></td>
<td>Provides information or instructions that you should follow in order to avoid a service failure or damage to your set-top box.</td>
</tr>
<tr>
<td><strong>Note</strong></td>
<td>Indicates additional information for reference.</td>
</tr>
<tr>
<td><strong>Checks</strong></td>
<td>Provides the operator with checkpoints for stable system operation.</td>
</tr>
</tbody>
</table>

Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Caution" /></td>
<td>Indication of a general caution</td>
</tr>
<tr>
<td><img src="image" alt="Restriction" /></td>
<td>Indication for prohibiting an action for a product</td>
</tr>
<tr>
<td><img src="image" alt="Instruction" /></td>
<td>Indication for commanding a specifically required action</td>
</tr>
</tbody>
</table>
WARNING

Power
- Insert the power plug firmly.
- Do not connect multiple devices to a single outlet simultaneously.
- Do not touch the main body, power cable, or power plug with wet hands.
- If video/sound cable generates heat after connection, pull out the power plug and contact customer service immediately.

Installation/Maintenance
- Do not install in humid or dusty areas, and avoid installing near heating devices.
- Do not cover the top.
- Keep flammable substances or sprays away from the set-top box.
- Pull out the power plug during thunderstorms or when not used for a prolonged period of time.
- Do not place heavy objects on this product.
- Pull out the power plug at once and contact customer service if unusual noise, smell, or smoke comes out.

General
- Check if the coaxial cable is correctly grounded before connecting to the set-top box.
- Ask the installation engineer to check if the set-top box to be connected is correctly grounded.
- Class 1 LED Product.
- This product complies with 21 CFR Chapter 1, subchapter J.

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## CAUTION

### Power

- Connect your TV after powering off the TV and the set-top box by pulling out the power plug.
- The socket-outlet shall be installed near the equipment and shall be easily accessible
- Do not insert the power plug before connecting the power cable to the product.
- Before connecting the power source, permanent protective earth connection to the cable distribution should be made

### Installation/Maintenance

- Install the product correctly complying with the instructions in the user guide.
- Do not spray water directly on the unit and do not use chemical solvents such as wax, mosquito spray, alcohol or detergent.
- Do not place the product on unstable support.
- Do not disassemble, repair, or remodel.
- No connection to an antenna.
- Do not remove the CableCARD™ from the set-top box.
- Do not place any metal items such as pins, paper clips or coins on the top of the product.
- Risk of electric shock, Do NOT OPEN.
- Wipe the product with a soft and dry cloth when cleaning.
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<td>Symbols</td>
<td>1</td>
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<tr>
<td>Warning</td>
<td>2</td>
</tr>
<tr>
<td>Caution</td>
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BEFORE USE

Digital HD OCAP STB
Digital HD OCAP STB (Digital High-Definition OpenCable Application Platform Set-Top Box) provides high quality video and audio broadcasting, and interactive services including Video-On-Demand.

Digital HD OCAP STB (SMT-H3262) provides the following functions.
– An MPEG decoder capable of processing HD/SD stream
– SCTE55-1, 55-2 and DOCSIS Cable Modem for OOB Signaling
– Digital AV transmission, such as IEEE1394 and HDMI
– Content Protection
– CableCARD Interface for CAS
– OCAP™ 1.0 application platform
– MoCA (Multimedia over Coax Alliance)

Package Contents
Please make sure the following items are contained in your product package box.
Names and Functions
Names and functions on the front and rear panel of the STB are described as follows:

Front Panel
The buttons and LEDs on the front panel are described as follows:

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
</table>
| **1** Active/Standby Button | - Active Mode: The STB is in operation mode and you can get broadcasting. The LED is illuminated.  
- Standby Mode: The power is supplied and it is in ready to active status. The LED is dimmed and all the A/V outputs are disabled. |
| **2** MoCA LED         | Turn on blue LED when the STB is linked with other STB by MoCA application. |
| **3** List Button      | List the home network contents. (option)                                 |
| **4** Guide Button     | Move to the **[On screen Guide]** screen.                                 |
| **5** Ch±/Vol±/Select Button | - [ch-] [ch+] : menu movement, channel selection.  
- [Select] : select the menu. |
| **6** Info Button      | Display the current channel number, selected menu and detailed information of an item. |
| **7** Exit Button      | Exit menus, guide and program information.                               |
The port names and functions of the rear panel are described as follows:

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1 CABLE IN</strong></td>
<td>Connect the coaxial cable that transmits the signal from the Cable Service Provider.</td>
</tr>
<tr>
<td><strong>2 CableCARD Slot</strong></td>
<td>Allow CableCARD access.</td>
</tr>
<tr>
<td><strong>3 1394</strong></td>
<td>Connect an IEEE1394 cable to IEEE1394 (Firewire) supported HDTV.</td>
</tr>
<tr>
<td><strong>4 VIDEO/AUDIO OUT</strong></td>
<td>Connect a Video &amp; Audio cable (RCA cable) to send an analog Video/Audio signal to the TV or VCR.</td>
</tr>
<tr>
<td><strong>5 Y/Pb/Pr OUT (HDTV)</strong></td>
<td>Connect the component (Y/Pb/Pr) output ports to the component input ports on your HDTV.</td>
</tr>
<tr>
<td><strong>6 SPDIF</strong></td>
<td>Connect a Digital Audio cable (Optical cable) to send a digital audio signal to a digital audio device (an amplifier or home theater).</td>
</tr>
<tr>
<td><strong>7 HDMI</strong></td>
<td>Connect a HDMI cable to a HDMI port supported HDTV.</td>
</tr>
<tr>
<td><strong>8 LAN</strong></td>
<td>Connect a LAN cable to a LAN port of another STB. (option)</td>
</tr>
<tr>
<td><strong>9 POWER</strong></td>
<td>Connect the power cable to supply AC power to the STB.</td>
</tr>
<tr>
<td><strong>10 USB</strong></td>
<td>Connect to external USB devices, such as a keyboard or mouse.</td>
</tr>
</tbody>
</table>
CableCARD™

CableCARD is the STB authorization device, which allows subscribers to watch digitally encrypted programs.

CableCARD is inserted by the service provider when a digital broadcasting receiver is installed.

**CableCARD Use**

Do not remove the CableCARD. CableCARD failure or service disruption may occur.
Follow the instructions below to see how to install the digital HD STB.

**Installation Environment**

The proper installation environment for the STB is as follows.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operation Temperature</strong></td>
<td>32–104 °F</td>
</tr>
<tr>
<td><strong>Operation Humidity</strong></td>
<td>Equal to or lower than 95% (104 °F)</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>23W Max.</td>
</tr>
<tr>
<td><strong>Rated Input Voltage</strong></td>
<td>AC 120 V, 60 Hz</td>
</tr>
<tr>
<td><strong>Channel Input Frequency</strong></td>
<td>54–1002 MHz</td>
</tr>
</tbody>
</table>
Peripheral Device Connection

The method of connecting the cable and each peripheral device to the STB is as follows:

(The product image may differ from the actual product.)
Connection to a TV Having a Composite Port

This section describes how to connect to a TV having a composite port.

Video Connection

Using a video connector of Video & Audio cable, connect the VIDEO OUT port on the rear panel of the STB to the Video Input port on the TV.

Audio Connection

Using an Audio cable or audio connectors of Video & Audio cable, connect the AUDIO OUT (L/R) ports on the rear panel of the STB to the Audio Input (L/R) ports on the TV.

Be sure to match the audio ports with the plugs of the same color.
Connection to a TV Having Component Ports (Y, Pb, Pr)

This section describes how to connect to a TV having component ports (Y, Pb, Pr).

When connecting the Component Video and Audio cables, be sure to match the ports to the plugs of the same color.

**Video Connection**

Using a Video (Component) cable, connect the Y, Pb, Pr (HDTV) port on the rear panel of the STB to the Y, Pb, Pr (DTV Video Input) port on the TV.

**Audio Connection**

Using an Audio cable, connect the AUDIO OUT (L/R) ports on the rear panel of the STB to the Audio Input (L/R) ports on the TV.
HDMI Connection

This section describes how to connect a TV to the STB by using an HDMI cable.

**HDMI Connection**

Connect the **HDMI** port on the rear panel of the STB with the **HDMI** port of your digital TV by using an HDMI cable. As an HDMI cable carries audio signals, a separate audio connection to your TV is not needed.

**DVI Connection**

Connect the **HDMI** port on the rear panel of the STB with the **DVI input** port of your digital TV by using the HDMI-DVI conversion cable. If using a DVI cable, a separate audio connection must also be made.

**High Definition Multimedia Interface (HDMI)**

The HDMI port provides high-definition video and is the highest quality video connection.
Digital Audio Connection

This section describes how to connect a digital audio (an amplifier or home theater that has a Dolby Digital decoding function).

Using a Digital Audio cable (Optical cable), connect the SPDIF port on the rear panel of the STB to the SPDIF port on the digital audio (an amplifier or home theater that has a Dolby Digital decoding function).

Use the connection to enjoy the digital sound of 5.1 channels.
VCR Connection
This section describes how to connect a VCR to the STB.

Video Connection
Using a video connector of Video & Audio cable, connect the VIDEO OUT port on the rear panel of the STB to the Video Input port on the VCR.

Audio Connection
Using an Audio cable or audio connectors of Video & Audio cable, connect the AUDIO OUT (L/R) ports on the rear panel of the STB to the Audio Input (L/R) ports of the VCR.
Be sure to match the audio ports with the plugs of the same color.
Home Network Connection (optional service)
This section describes how to connect another STB to your STB by using an Ethernet cable.

Connect the **LAN** port on the rear of the STB with the **LAN** port of another STB by using an Ethernet cable.

USB Connection
This section describes how to connect additional USB devices like USB keyboard or mouse.

Connect the **USB** port on rear of the STB with USB devices by using USB cable.
TROUBLESHOOTING

This section describes problems you may encounter while using the STB. If a problem occurs in the STB, check the following items first.

### Screen

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Solution</th>
</tr>
</thead>
</table>
| The TV screen does not appear. | 1. Check if the power of the TV and STB are turned on.  
2. Check if the cable is connected to the ‘CABLE IN’ port.  
3. Check if the STB is selected as the TV’s source. |

### Remote Control

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Solution</th>
</tr>
</thead>
</table>
| The remote control does not operate. | 1. Check if the remote control is suitable for use with the STB.  
2. Check if the remote control operates normally after changing the batteries.  
3. Check if the batteries are inserted correctly in the remote control.  
4. Check if any obstacle exists between the STB and the remote control.  
5. Check if the remote control operates normally when used at a close distance. |

### General

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Solution</th>
</tr>
</thead>
</table>
| No sound is emitted in the TV or the audio. | 1. Check if the audio ports of the TV are properly connected to the audio output ports of the STB.  
2. If the audio cable is connected properly, check if the mute function is set. If the mute function is set, press the [Mute] button of the remote control in order to release the mute function. |
### Specification

The specification of SMT-H3262 as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video Output</strong></td>
<td>Composite (VIDEO OUT), Component (Y, Pb, Pr)</td>
</tr>
<tr>
<td><strong>Audio Output</strong></td>
<td>Stereo L/R (AUDIO OUT), SPDIF Optic (SPDIF)</td>
</tr>
<tr>
<td><strong>Video/Audio Output</strong></td>
<td>HDMI, IEEE1394</td>
</tr>
<tr>
<td><strong>USB Port</strong></td>
<td>USB 2.0</td>
</tr>
<tr>
<td><strong>OOB (Out of Band)</strong></td>
<td>FDC (Forward Data Channel)</td>
</tr>
<tr>
<td></td>
<td>– RF Input Tuning Range: 70 to 130 MHz.</td>
</tr>
<tr>
<td></td>
<td>– RF Input Level Range: -15 to +15 dBmV</td>
</tr>
<tr>
<td></td>
<td>– Format: SCTE 55-1, 55-2</td>
</tr>
<tr>
<td><strong>RDC (Reverse Data Channel)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>– RF Output Frequency Range: 5 to 42 MHz.</td>
</tr>
<tr>
<td></td>
<td>– Transmit Level Range: +26 to +60 dBmV</td>
</tr>
<tr>
<td></td>
<td>– Encoding: QPSK</td>
</tr>
<tr>
<td><strong>DSG (DOCSIS Set-top Gateway)</strong></td>
<td>Downstream</td>
</tr>
<tr>
<td></td>
<td>– RF Input Tuning Range: 88 to 860 MHz</td>
</tr>
<tr>
<td></td>
<td>– RF Input Modulation: 64QAM/256QAM</td>
</tr>
<tr>
<td></td>
<td>– RF Input Level Range: -15 to +15 dBmV</td>
</tr>
<tr>
<td><strong>Upstream</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>– RF Output Frequency Range: 5 to 42 MHz.</td>
</tr>
<tr>
<td></td>
<td>– RF Output Modulation: QPSK/16 QAM, 64 QAM</td>
</tr>
<tr>
<td></td>
<td>– Transmit Level Range: +8 to +60 dBmV</td>
</tr>
<tr>
<td>Category</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>MoCA</td>
<td><strong>Input Frequency</strong> 1125 to 1525 MHz MoCA D-Band Standard Channel Plans.</td>
</tr>
<tr>
<td></td>
<td><strong>Signal Modulation</strong> OFDM</td>
</tr>
<tr>
<td></td>
<td><strong>Channel Bandwidth (TX/RX)</strong> 50 MHz</td>
</tr>
<tr>
<td></td>
<td><strong>Max. Number of Nodes</strong> 16</td>
</tr>
<tr>
<td></td>
<td><strong>Max. MAC Throughput</strong> Up to 175 Mbps</td>
</tr>
<tr>
<td></td>
<td><strong>Max. Packet Error Rate</strong> 1e-5</td>
</tr>
<tr>
<td></td>
<td><strong>QoS</strong> 3-Level Prioritized and Parameterized</td>
</tr>
<tr>
<td>Rated Input Voltage</td>
<td>AC 120 V, 60 Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>23 W Max.</td>
</tr>
<tr>
<td>Operation Temperature</td>
<td>32~104 °F</td>
</tr>
<tr>
<td>Size (mm)</td>
<td>350 (Width) × 238 (Depth) × 60 (Height)</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>1.94</td>
</tr>
</tbody>
</table>
Cable Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel Input Frequency</td>
<td>54 to 1002 MHz</td>
</tr>
<tr>
<td>Cable Input Signal level Range</td>
<td>-15 to +15 dBmV</td>
</tr>
<tr>
<td>Cable Input Signal Modulation</td>
<td>64/256 QAM</td>
</tr>
</tbody>
</table>

Macrovision Product Notice

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited consumer uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Macrovision Installation Recommendation

Do not connect the unit through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television. Some PPV or VOD programs may be protected by copyright protection systems.

Dolby Logo Usage Approval

Manufactured under license from DOLBY Laboratories.
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Digital Television Transition Notice

This device contains a digital television tuner, so it should receive digital over the air TV programming, with a suitable antenna, after the end of full-power analog TV broadcasting in the United States on February 17, 2009. Some older television receivers, if they rely on a TV antenna, will need a TV Converter to receive over the air digital programming, but should continue to work as before for other purposes (e.g., for watching low-power TV stations still broadcasting in analog, watching pre-recorded movies, or playing video games).

When a Converter is used with an older television receiver, a signal splitter might be necessary to continue to receive low-power analog broadcasts via an antenna.

For more information, please see www.DTV.gov.

For information on the TV Converter program, and on government coupons that may be used toward the purchase of one, see www.dtv2009.gov, or call the NTIA at 1-888-DTV-2009.

Note to CATV System Installer

This reminder is provided to call the CATV system installer’s attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.
Open Source Announcement

Some software components of this product incorporate source code covered under the GNU General Public License (GPL) and the GNU Lesser General Public License (LGPL).

Acknowledgement:
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You may also find a copy of the source at http://www.samsungnetwork.com/Home/Opensource

This offer is valid to anyone in receipt of this information.

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<table>
<thead>
<tr>
<th>Component</th>
<th>License</th>
<th>Component</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linux Kernel</td>
<td>GPL 2.0</td>
<td>Busybox</td>
<td>GPL 2.0</td>
</tr>
<tr>
<td>xfprogs</td>
<td>GPL 2.0</td>
<td>dhcpd</td>
<td>GPL 2.0</td>
</tr>
<tr>
<td>tftpd</td>
<td>GPL 2.0</td>
<td>fdisk</td>
<td>GPL 2.0</td>
</tr>
<tr>
<td>libuClibc.so</td>
<td>LGPL 2.1</td>
<td>ld.so</td>
<td>LGPL 2.1</td>
</tr>
<tr>
<td>libc.so</td>
<td>LGPL 2.1</td>
<td>libm.so</td>
<td>LGPL 2.1</td>
</tr>
<tr>
<td>libpthread.so</td>
<td>LGPL 2.1</td>
<td>libgcc_s.so</td>
<td>LGPL 2.1</td>
</tr>
<tr>
<td>libstdc++</td>
<td>LGPL 2.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Version 2, June 1991

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That's all there is to it!