

Pro:Centric[®] SMART

Ultra HD Set Top Box

▶ STB-5500



Introduction

The STB-5500 is the latest Pro:Centric Smart set top box now supporting Ultra High Definition (UHD) video decoding and output resolution, plus a integrated 4K picture upscaler of Full HD content on the HDMI/USB inputs.

For future hardware upgrades, the STB-5500 supports an enclosure design with an expansion side-connector enabling third party System Integrator partners to add their own hardware modules to deliver additional capabilities. As an example, a DOCSIS 3.0 cable modem card is offered to provide IP-over-coax network connectivity to the STB-5500.

The STB-5500 platform enables LG's partners to deliver applications that optimize the guest experience which include:

- Bluetooth Sound Sync that allows users to connect their personal devices to stream music and play through the TV speakers.
- Access to an expanded list of SMART applications, including "Over-The-Top" video services and games.
- Soft Access Point to enable a guest to connect their personal devices for internet access.
- Simple mobile device pairing process for guests using Screen Sharing (Miracast)
- DOCSIS 3.0 modem upgrade option for IP over coax communications (additional head-end equipment required).



Features

- **Pro:Centric[®] Smart IPTV Platform:**
 - Web Browser, Expanded list of Embedded Smart Apps
 - **Guest Connectivity:** Smart Mirroring, Wi-Fi Direct, Wi Di, Smart Share, Bluetooth Sound Sync
- **Embedded Pro:Idiom[®] decryption for non-Pro:Idiom TV's**
- **IP Streaming and RF Tuning**
 - Supports RF/IP content delivery
- **Supports Ultra HD/4K (3840 x 2160) and Full HD (up to 1080p) output resolutions**
- **Pro:Centric Application Support for non-Pro:Centric TVs**
 - Interactive Electronic Program Guide
 - Gold Application with branded UI and electronic billboards
 - Smart Apps launch (V3.5)
- **Interfaces:** Optical Digital Audio Out, HDMI In/Out, Composite AV IN, USB, LAN, RS-232, MPI/MTI television control interfaces
- **Rear of TV installation** (VESA pattern mounting points)
- **Accessory Kit includes:** PSU and Cables - HDMI, Control, (RS-232 and MPI/MTI), Composite AV adaptor
- **Hardware Accessory Connector** Expansion for system integrators to provide optional features extensions to the STB-5500. DOCSIS 3.0 modem option available for IP-over-coax installations.

SECOND SCREEN CONNECTIVITY / SHARING

MEDIA SHARE



Guests may use LG Smart Share features, such as Wi-Fi Direct®, as well as Screen Share features, including Miracast®, WiDi, and DIAL to view content from their mobile devices on the large HD screen.

BLUETOOTH SOUND SYNC (BLUETOOTH 3.0)*



This feature allows guests to listen to audio from a Bluetooth-enabled mobile device through the TV's speakers.

*Support devices for Bluetooth Sound Sync: Android (above v4.4 KitKat) / iOS based Mobile Device

SMART CUSTOMIZATION

LG Pro:Centric® Smart offers SI's the ability to customize and optimize a property's TVs with interactive IP-based applications including HTML5, Java and Flash programs to provide premium hotel services.

CUSTOM USER INTERFACE



PRE-LOADED APPLICATIONS



GLOBAL LEADING DIGITAL RIGHTS MANAGEMENT SYSTEM

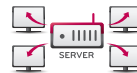
Pro:Idiom unlocks access to premium content to help assure rapid and broad deployment of HDTV and other high value digital content.

Pro:Idiom has been designed specifically for users of premium HDTV content from cable, satellite, or video on demand (VOD) services, and is thus designed to lower costs and reduce maintenance needs. This leading DRM system is embraced for its security solution, which prevents illegal copying of copyrighted content.

REDUCED TOTAL COST OF OWNERSHIP



The USB Cloning feature allows you to simply copy the STB's settings onto all STB's using a USB stick, a process that is fully automated to save time without having to set each STB one by one.

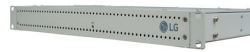


Remote Manager

Using LG's optional Pro:Centric server, you can remotely manage cloning and channel mapping for STB's in guest rooms without having to visit each room.

PCS200S HEAD-END SERVER

Remote management functions are supported via the Pro:Centric server which has an agile frequency QAM or IP output. The Pro:Centric Application software is also supported via the same server to deliver the benefits of LG's Applications features (Weather, EPG, Billboards...)



Auto configuration function makes installation quick and easy with simple steps to guide the installer to set up the STB, saving time and costs.

EZ install provides an auto search and synch' function with the Pro:Centric server data channel to simplify the installation process.

Pro:Centric Applications Platform

The STB-5500 is the latest addition to the of Pro:Centric family that provides a unique and dedicated hotel application platform for hosting LG's SI (System Integrator) Partners interactive applications, enabling delivery for a wide range of custom applications tailored to both hotel management and guest needs.

The STB-5500 is a full IPTV platform with built-in IP video decoding supporting both IP and RF connectivity. Leveraging the Pro:Centric IPTV platform enables SI Partners to integrate their client software directly into the STB to enable control of content on LG and other manufacturers commercial televisions.

The STB-5500 supports embedded Wi-Fi for streaming of content to the Television or back channel communications.

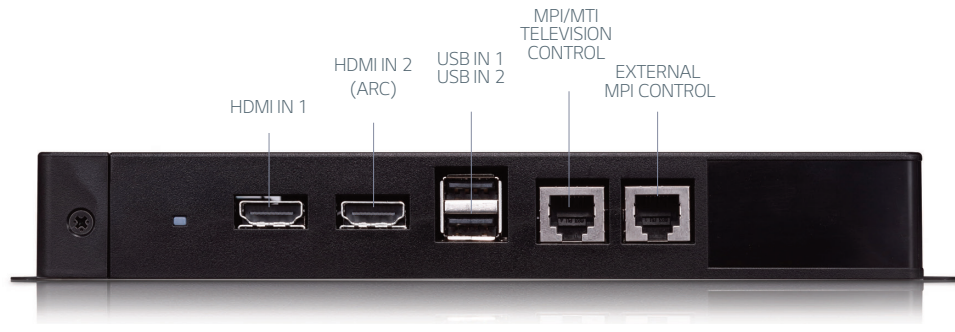
The STB-5500 also includes remote diagnostic tools for partners to manage their systems and monitor the STB's on the network by the head-end or cloud based server for maintenance and admin purposes.

HARDWARE EXPANSION

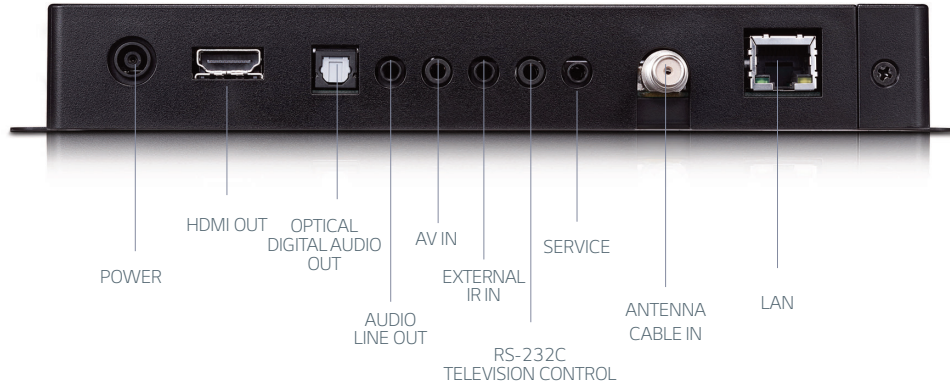
The STB-5500 enclosure design accommodates a connector and mechanical mounting arrangement to enable future hardware expansion modules to be added to the unit.



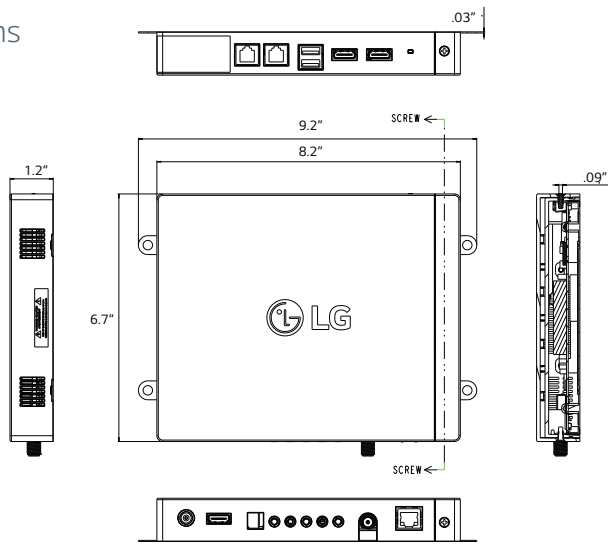
Front View



Rear View



Dimensions



POWER SUPPLY



HDMI CABLE



COMPOSITE A/V CABLE



DISPLAY CONTROL CABLE (RS232)



DISPLAY CONTROL CABLE (MPI/MTI)








Pro:CentricSM SMART

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BROADCASTING SYSTEM	Model	STB-5500
	Analog	Yes (NTSC)
	Digital	Yes
	Terrestrial	ATSC
	Cable	Clear QAM / VSB
VIDEO	Triple XD Engine	Yes
	Output Resolution	720p / 1366*768 1080p / 2160p
AUDIO	Optical Sound Sync	Yes (SPDIF)
	Wireless Sound Sync	Yes
	Clear Voice II	Yes
FEATURE	Pro:Centric	Yes (Smart)
	Hybrid Streaming (IP & RF) MultiCast/HTTP Data Carousel	Yes
	Pro:Centric Application	Yes
	RF (1/2Tuner)	Yes (1 Tuner)
	HCAP (GEM/FLASH/HTML) Service Carousel (TLX)	GEM / Flash / HTML
	HCAP Input Device Driver Support	Yes (USB Mouse, USB Keyboard, Magic Remote, USB Camera, Remote App)
	Auto Configuration	Yes (EZ-Manager)
	Remote Diagnosis	Yes (IP)
	Multicast/Uncast Ready	Yes
	IP Streaming	Yes (RTSC, HLS, SNMP, UDP/MultiCast, USB Port/Video Streaming support (Smartshare) (IGMPv3 SSM Support)
	Commercial Smart UX (Smart Home / Input)	Yes
	Commercial Smart Home	Yes
	Third Party Embedded Apps	Yes
	Web Browser option	Yes
	Magic Remote	Yes (Ready)
	Remote App Compatibility	Yes
	Smart Share	Yes
	DLNA (Movie/Photo/Music)	Yes (Smart share)
	WiDi (PC to TV)	Yes
	Miracast (Mobile to TV)	Yes (Smart mirroring)
	Wi-Fi Direct	Yes
	DIAL	Yes
	HDMI-CEC	Yes
	HTNG CEC	Yes
	Pro:Idiom	Yes
	Multi DRM	Yes (Embedded Apps)
	Instant ON	Yes
	WOL/WoWLAN	Yes
	Wi-Fi	Yes (Built-in type)
	Soft AP	Yes
	Installer Menu	Yes
	IR Pass Through	Yes (MPI Jack/RS232)
	Audio Line Out (3Pin Phone Jack)	Yes
	RJP Interface	Yes (HDMI)
	RJP Compatibility	Yes (Teleadap, G-Link)
	USB	USB2.0
	Moving Picture Playback (SD/HD/Plus HD)	Yes (Except Divx)
	Picture	JPEG
	Audio Codec	AC3 (Dolby Digital), EAC3, AAC, Mpeg, MP3, PCM
	USB Cloning	Yes
	One Channel Map / Logical Channel Map	Yes (LCM)
	Multi IR Code	Yes
	Auto Off / Auto Sleep	Yes
	Video Mute	Yes
	Smart Energy Saving (Auto Power Off)	Yes
	External Hardware Module Interface	Yes (60pin Interface)

INTERFACE	Model	STB-5500
	TV Display Control RS-232 (4 pin phone jack)	Yes
	TV Display Control MPI/MTI (RJ-12)	Yes
	HDMI (1,2)	Yes
	USB 2.0	Yes (2)
	Power	Yes
	Tuner	Yes
	External IR (3Pin Phone Jack)	Yes
	PTC Service (3Pin Phone Jack)	Yes
	AV In (4Pin Phone Jack)	Yes
	Audio Line Out (3Pin Phone Jack)	Yes
	Digital Audio Out (Optical)	Yes
	LAN Port	Yes
	HDMI Out	Yes
ACCESSORIES	AC Adaptor	Yes
	Cables	HDMI, MPI, RS232 (Phone to RS232C) AV gender
	Manual	Yes
POWER	Voltage, Hz	Input: AC100 - 240V, 50/60Hz, 1.6A Output: DC19V, 3.42A
	Consumption (typical)	14.1W
	Stand-by	0.5W
CERTIFICATION	Safety	UL
	EMC	FCC
	ETC.	RoHS, cUL, ENERGY STAR 5.0
DIMENSION	Weight	1.4 lbs
	Weight (Packing)	3.9 lbs
	WxHxD	8.2" x 6.7" x 1.2"
	WxHxD (Packing)	14.2" x 5.4" x 8.1"
ENVIRONMENT CONDITIONS	Operating Temperature	0° C to 40° C (32° F to 104° F)
	Operating Humidity	Less than 80%
	Storage Temperature	-20° C to 60° C (-4° F to 140° F)
	Storage Humidity	Less than 85%
OTHER	UPC	7 19192 91972 3
	Warranty	2 Year Limited Warranty (Parts and Labor)
REMOTE JACK PANEL COMPATIBILITY	 	
SYSTEM INTEGRATOR COMPATIBILITY	                      	
LG COMMERCIAL TV COMPATIBILITY	<ul style="list-style-type: none"> All LG hotel TVs with the MPI interface support are proven interoperable with the STB-5500, apart from the LP1 and LX3 models. All Commercial Lite models with RS.232 interface. Contact LG APD if you have compatibility issues with any LG commercial TV models. 	
NON-LG AND OTHERS COMPATIBILITY	<ul style="list-style-type: none"> Commercial hotel TVs supporting the MTI/MPI interface should be compatible with the STB-5500, but it is the System Integrators responsibility to perform verification testing using a sample TV prior to deployment or customer commitment. Issues found should be reported to LG APD. 	