

selectv  
product  
technical data  
sheet



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## network requirements & standards

The purpose of this section is to serve as a guideline for selecting and configuring suitable network switches for implementing SELECT-TV™. The architecture and health of a network very much determine and affect the performance of SELECT-TV™.

### CORE SWITCH

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The Core Switch must meet the following requirements,

- Manageable.
- Gigabit (1000 Mbps) uplinks for all the Edge Switches and Servers.
- Switching Fabric / Backplane Capacity of minimum 50 Gbps.
- IGMP v2 (Querier / Router).

### EDGE SWITCH

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The Edge Switch must meet the following requirements,

- Manageable.
- Gigabit (1000 Mbps) uplink to Core Switch.
- Ethernet and Fast Ethernet (10/100 Mbps) to all STBs.
- IGMP v2 (Snopping)

Note,

Each Edge Switch shall be directly connected to the Core Switch via a Gigabit (1000 Mbps) uplink. Cascading will require proper standards using CAT6 cascading on cascade ports.

### RECOMMENDED MANUFACTURERS AND MODELS

Manufacturer	Switch	Model
3Com	Core	4200G, 4500G and 5500G Family
	Edge	4200, 4500 and 5500 Family
HP	Core	3500 and 5400 Procurve Family
	Edge	2600 Procurve Family
Cisco	Core	3560, 3750 and 6500 Catalyst Family
	Edge	2950 and 2960 Catalyst Family

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## IPTV standards & encoding

SELECT-TV™ is designed and build to comply with international standards ensuring compatibility with content providers and delivery processes. The capabilities of SELECT-TV™ are:

### VIDEO COMPRESSION

- MPEG-1
- MPEG-2 (Variable and Constant bit rate)
- MPEG-4 (variants)
- MPEG-4 AVC (H. 264)
- VC-1
- Theora

### VIDEO RESOLUTION

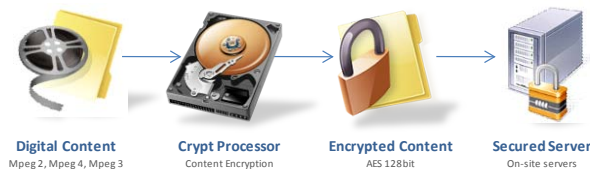
- 480P
- 720P – HD Series only
- 1080i – HD Series only. Supports all profiles including advanced profiles
- 1080P – HD Series only. Supports all profiles including advanced profiles

### AUDIO COMPRESSION

- MPEG1-Layer III (MP3)
- AAC
- Vorbis

### DIGITAL RIGHTS MANAGEMENT

- 128 bit AES Encryption
- Key Infrastructure
- Rotating keys for Live TV streaming up to 100 keys per second

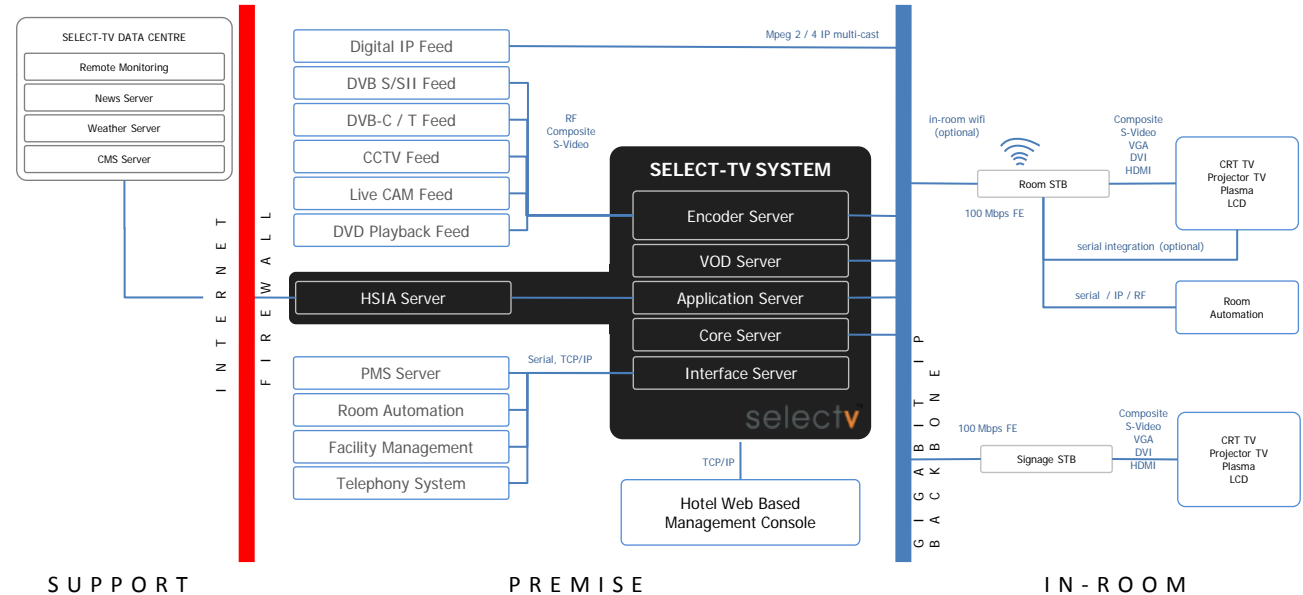


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## technical architecture

Designed and built fully on IP technology, Select-TV leverages on the benefits that comes with IP convergence. Utilizing a single common infrastructure, Select-TV provides the following to your premise:

- Interactive TV
- IPTV
- Digital Signage
- Internet Billing System
- Advanced Telephony
- CCTV feed dissemination

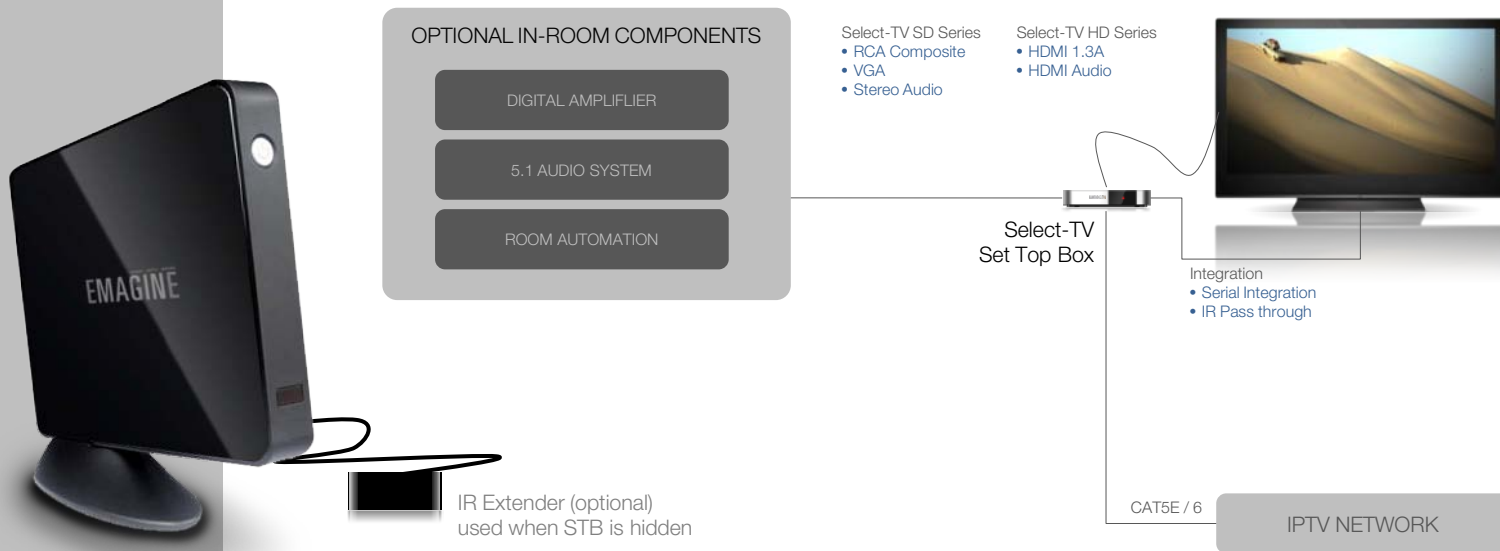


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## in room equipment & set up

SELECT-TV™ key capabilities that ensure a rich yet robust solution for hotels are:

- 100% “zero storage” on the set top box eliminating issues of storage corruption
- Linux operating system reducing security threats and other Windows related issues
- Flash based GUI ensuring a rich and attractive customer interface
- 100% web based technology increasing scalability and adaptability
- 100% server based for all information, content and storage requirements ensuring reliability and security of data



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## set top box



SELECT-TV™ key capabilities that ensure a rich yet robust solution for hotels are:

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- 100% web based technology increasing scalability and adaptability
- 100% server based for all information, content and storage requirements ensuring reliability and security of data

<b>VERSION:</b>	Select-TV STB Version 3.0HD	Select-TV STB Version 3.0SD
<b>DIMENSION :</b>	ABS 197mm X 150mm X 25mm	
<b>PORTS:</b>	1 X Gigabit Ethernet RJ-45 1 X Infrared Extender Port 1 X HDMI 1.3A TV-Out (with audio) 2 X USB 2.0 1 X Stereo Audio Out	1 X Gigabit Ethernet RJ-45 1 X Infrared Extender Port 1 X VGA Display Out 2 X USB 2.0 1 X Stereo Audio Out



<b>RAM:</b>	1GB
<b>MULTIMEDIA PROCESSING:</b>	MPEG 2, 4, H264, Xvid SD, HD 1080P, HD1080i (HD version) MPEG 3
<b>INTERNET COMPLIANCE:</b>	HTML FLASH 10.1 Javascript
<b>PERIPHERALS:</b>	Select-TV RF Wireless Keyboard Select-TV IR Remote Control
<b>GAMING:</b>	OPEN GLES 2.0 Full 3D
<b>POWER:</b>	< 40W consumption (60W in)
<b>ENVIRONMENT:</b>	Operation temperature: 0-60o C Storage temperature: -20-80o C Operation humidity: 5-95%,

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## integration

SELECT-TV™ is fully compliant and integrated with numerous in-room devices:

- Hotel LCD TVs – for TV controls and IR pass through
  - LG
  - Samsung
  - Sony
  - Sharp
  - Panasonic
  - B&O
  - Phillips
- In Room Automation & Devices
  - Marrantz – Home Theatre
  - ABB – room automation
  - AMX – room automation

SELECT-TV™ is fully certified and integrated with most popular Hotel Property Management Systems:

- Micros Fidelio – Fidelio, Opera
- Softbrands – HIS, Epitome
- Hotsoft
- Commanche
- VHP
- Easyfor
- Innkeeper
- eHors
- Control (common interface for 150 different PMS)

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universal  
remote control  
&  
wireless  
keyboard

SELECT-TV™ key capabilities that ensure a rich yet robust solution for hotels are:

- Fully programmable learning remote control with USB load scan codes to ensure compatibility with all TVs
- Customized large buttons for ease of use by guests
- Shortcut buttons for common accessed functions on system
- Only single remote control in room controlling both Select-TV system and TV
- Radio Frequency 2.4GHz wireless keyboard with up to 10m non line of sight range
- Easy to use full size keyboards. Does not require pointing direction to TV.

<b>VERSION:</b>	Select-TV Remote Version 3.0
<b>DIMENSION :</b>	H 190mm X W 50mm
<b>BATTERIES:</b>	2 X AAA Alkaline (720 hours)
<b>PORTS:</b>	USB for code loading
<b>WIRELESS:</b>	INFRARED (7m range)

<b>VERSION: (optional item)</b>	Select-TV Keyboard Version 3.0
<b>DIMENSION :</b>	W 400mm X H 175mm X D 38mm
<b>BATTERIES:</b>	4 X AA Alkaline (360 hours)
<b>CONFIGURATION:</b>	Full Sized QWERTY & Track Ball Mouse
<b>WIRELESS:</b>	Radio Frequency 2.4Ghz (10m range) 32,768 unique IDs





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interactive tv  
and  
communication  
servers

SELECT-TV™ key capabilities that ensure a rich yet robust solution for operators are:

- Fully rack mount servers for all servers ensuring standard compliance implementation and easy management
- All servers are equipped with Select-TV's monitoring watch dog for 24 X 7 monitoring and remote access support

#### SELECT-TV APPLICATION SERVER

- DIMM Memory 2GB (2x1024), DDR-2 667MHz
- 80GB 3.5-inch 7.2K RPM SATA II Hard Drive
- Integrated ATI ES1000 (RN50) SVGA Controller with 32MB Memory
- Dual Integrated Broadcom 5721 Gigabit Ethernet Controller
- C2: No Raid, On-board SATA Controller, 2 SATA

#### SELECT-TV CORE SERVER

- DIMM Memory 2GB (2x1024), DDR-2 667MHz
- 80GB 3.5-inch 7.2K RPM SATA II Hard Drive
- Integrated ATI ES1000 (RN50) SVGA Controller with 32MB Memory
- Dual Integrated Broadcom 5721 Gigabit Ethernet Controller
- C2: No Raid, On-board SATA Controller

#### SELECT-TV CONTENT MEDIA SERVER

- Integrated ATI ES1000 (RN50) SVGA Controller with 32MB Memory
- Dual Integrated Broadcom 5721 Gigabit Ethernet Controller
- C4: Raid 1, SAS6i/R Integrated SAS 6i/R Controller Card
- 300GB 3.5-inch 15K RPM SAS Hard Drive

#### SELECT-TV INTERNET SERVER

- DIMM Memory 2GB (2x1024), DDR-2 667MHz
- 80GB 3.5-inch 7.2K RPM SATA II Hard Drive
- Integrated ATI ES1000 (RN50) SVGA Controller with 32MB Memory
- Dual Integrated Broadcom 5721 Gigabit Ethernet Controller
- C2: No Raid, On-board SATA Controller



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application

content

core

internet

## server specs

### CHASSIS

Form Factor: 1U Rack  
Height: 1.68" (4.27 cm)  
Width: 17.60" (44.70 cm)  
Depth: 21.50" (54.61 cm)  
Weight: ~ 26.0 lbs. (11.80kg)

### Ports

Rear: 2 x USB 2.0 ports, 1 x video connector, 1 x serial connector, 1 x PS/2 mouse connector, 1 x PS/2 keyboard connector  
Front: 2 x USB 2.0 ports, 1 x video connector

### Power

Single power supply (345W)

### Environmental

Operating Temperature: 10° to 35°C (50° to 95°F)  
Operating Relative Humidity: 20% to 80% (non-condensing) with a maximum humidity gradation of 10% per hour  
Operating Maximum Vibration: 0.25 G's 0-Peak, 3-200 HZ sweep @ 1/2 Octaves/minute  
Operating Maximum Shock: 31G, 2.6ms, 20inch/sec, bottom side  
Operating Altitude: -16 to 3048 m (-50 to 10,000 ft.)  
Storage Temperature: -40° to 65°C (-40° to 149°F)  
Storage Relative Humidity: 5% to 95% (non-condensing)  
Storage Maximum Vibration: 1.54 GRMS - 6 sides @ 15 min/side  
Storage Maximum Shock: 71G, 2ms, 35inch/sec, 6 sides; 3



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## IRD & IPTV encoding servers

SELECT-TV™ key capabilities that ensure a rich yet robust solution for operators are:

- Fully rack mount servers for all servers ensuring standard compliance implementation and easy management
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### SELECT-TV STANDARD DEFINITION IPTV ENCODING SERVER

- DIMM Memory 1GB DDR-2 667MHz
- Up to 5 channels per server
- Input options: RF, Composite, S-Video
- Mpeg2 hardware encoding
- Dual Integrated Ethernet Controller

### SELECT-TV HIGH DEFINITION IRD (only for FTA or CAM module supported DVB DRM)

- Up to 6 DVB-C/S transponders
- Up to Full-HD broadcast-grade
- 2 X CAM Support
- Built-In Multiplexer for any table injection and ASI inputs for cascading
- Simultaneous ASI and IP streaming outputs
- 2x GB 10/100/Gigabit Ip streaming outputs

