HD­ Set Top Box

Specification

**DocumentRecord**

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# 1 Production Introduction

## 1.1 Scope

The GOYA HD Set-top Box (STB) offers subscribers the latest enhancements in cable television viewing. This STB gives consumers a rich experience with new features which provides customize design solution and a variety of applications such as 7 days EPG, genres navigators and many other utility services.

The GOYA HD STB compliant with DVB-C standards and MPEG-2/MPEG-4. It supports PAL formats with its CAS, it is built to support renewable security. The main features of this STB described as below:

* Integration GOYA solution
* Video decoder support MPEG-2/MPEG-4, H.264, HEVC
* Audio decoder support MPEG-1, MPEG-2 (Layer I & II), AAC
* BIS certification - IS13252 (Part-1):2010

## 1.2 Abbreviations and Acronyms

|  |  |
| --- | --- |
| Items | Description |
| STB | Set Top Box |
| EPG | Electronic Program Guide |
| DDR | Double Data Rate |
| HD | High Definition |
| OSD | On Screen Display |
| RAM | Random Access Memory |
| RF | Radio Frequency |
| DVB | Digital Video Broadcasting |
| SD | Standard Definition |
| CA | Conditional Access |
| LED | Light-emitting Diode |
| PAL | Phase Alteration Line |
| CVBS | Composite Video Blanking Signal |
| IR | Infra-Red |
| MPEG | Moving Pictures Expert Group MPEG |
| QAM | Quadrature Amplitude Modulation |
| MP@ML | MPEG Main Profile at Main Level |

# 2 Software General Features

|  |  |
| --- | --- |
| Items | Features |
| CA Type | Cardless |
| CA system | Sumavision |
| Language | English |
| PAL/NTSC | PAL/NTSC |
| Video Mode | 4:3/ 16:9 |
| Display Mode | Pan /Scan/Letterbox |
| Audio Track | Stereo/Mix/Left/Right |
| EPG | 7 days\*24 hours Electronic Program Guide (EPG) |
| Parental Rating | Support Channel Control |
| SW Upgrade | OTA |

# 3Hardware Specification

## 3.1 Chipset

|  |  |
| --- | --- |
| Items | Features |
| Main Chipset | GX3113E |
| Maximum performance | 600MHz |
| SDRAM Memory | 128MByte |
| Flash Memory | 8MByte |

## 3.2 Tuner

|  |  |
| --- | --- |
| Items | Features |
| Frequency Range | 47~862MHz |
| Channel bandwidth | 8MHz |
| Input Impedance | 75Ω |
| Input Level Range | 40dBuV to 95dBuV (typical for 64QAM) |
| Signal input | IEC 60169-24 F-Type, Female |

## 3.3 Demodulator

|  |  |
| --- | --- |
| Items | Features |
| Demodulator IC | Embedded in Main Chipset |
| Demodulation | 16,32,64,128,256 QAM |

## 3.4 Video Decode

|  |  |
| --- | --- |
| Items | Features |
| Video Decode | MPEG-2 MP@HL, MPEG-4 SP and ASP video decoding, H.264 BP/MP/HP, H.265 BP/MP/HP |
| Aspect Ratio | 4:3, 16:9 |
| Video Resolution | Up to 1080p |
| Video Format | PAL/NTSC |

## 3.5 Audio Decode

|  |  |
| --- | --- |
| Items | Features |
| Audio Decode | MPEG-1 I/II , MP3, AAC & HE-AAC |
| Output | Stereo/Mix/Right/Left |
| Sampling Frequency | 32KHz, 44.1KHz, 48KH |

## 3.6 Front Panel



|  |  |
| --- | --- |
| Items | Features |
| IR | 38KHz |
| LED Indicator | Power, Signal |
| Key | 3\* Keys (CH+, CH-, Standby) on the topside |
| USB | 1\*USB 2.0, Type A |

## 3.7 Back Panel



|  |  |
| --- | --- |
| Items | Features |
| RF IN | IEC 60169-24, F-Type, Female |
| AV | 1\*3.5mm RCA |
| HDMI | 1\*HDMI 1.4 |
| DC IN | 12V DC Adapter |

## 3.8 Remote Control

|  |  |
| --- | --- |
| Items | Features |
| Control Picture | Interfaz de usuario gráfica, Aplicación  Descripción generada automáticamente |
| Key | 45 Keys |
| Battery Type | 2 \* 1.5V AAA |

# 4 Power supply

|  |  |
| --- | --- |
| Items | Features |
| DC Input | 12V/1A DC Adapter |
| Supply Mode | External |
| AC Input | 100V~240V |

# 5 Environment

|  |  |
| --- | --- |
| Items | Features |
| Input Voltage | 100V~240V |
| Work Temperature | 0～40℃ |
| Storage Temperature | -20~60℃ |
| Humidity | <95％ |

# 6 Mechanical Features

|  |  |
| --- | --- |
| Items | Features |
| Mechanical Type | plastic case |
| Cover color | Black/white or other |
| Front panel color | Black/white or other |
| Back panel color | Black/white or other |
| Dimension | W: 170 MM, D: 104 MM, H: 30 MM |

# 7 Packing

|  |  |
| --- | --- |
| Items | Features |
| Type | Paper card packaging |
| Outline Size | Customization |
| Gift box | Customization |
| Weight | <1Kg |

# 8 Accessories

|  |  |
| --- | --- |
| Items | Features |
| Power Adapter | 1 \*12V/1A DC Adapter |
| HDMI cable | 1 \* 1.5m HDMI cable |
| AV cable | 1\* 1.5m AV cable |
| Remote control | 1 \* Customer Designed Remote Control |
| Battery | 2 \* 1.5V AAA |
| User manual | 1\* Black White Print Manual |