

# hBOX 2C P(MPEG-4 HD)

## ■ Features hBox2C P (MPEG-4 HD)

- Inbuilt YouTube, Weather, Google Map Applications
- Wifi connectivity via USB Dongle.
- Fully Compliant with DVB-C Standard
- MPEG-4&H.264,H.263,MPEG-2,JPEG/MJPEG Video Decoding
- Dolby AC3,DD+,AAC,HE-AAC,MP3,MP3,MPEG1/II Audio Decoding
- PAL: 576i/576p/720p/1080i/1080p, NTSC: 480i/480p/720p/1080i/1080p
- STB Tuning according to Customized Network Name/ID/Home Frequency
- STB Tuning through NIT Search Supported
- Boot-up Logo/Radio Image/Water Mark Supported
- Ensurity /NSTV/Safeview/ABV/ Etc CAS Supported
- STB Automatic Update at Background if Any Change of LCN Number/Channel Name/New Service/TP/NIT Version Supported
- Automatic Symbol Switch between Scrambled Service and Unscrambled Service Supported
- TV Guide or Bouquet from BAT Optional
- Brightness, Contrast and Saturation Adjustable
- 7 Day EPG, LCN, Games, Timer, Parental Lock and Favorite Group Supported
- Last Channel Memory Supported
- Reminder/Sleep/On Timers Display and Management Supported
- USB PVR and Time-Shift Supported
- Forced OTA/RS232 SW Upgraded Supported
- OTT Functions like YouTube and etc. Supported
- Open to Latter Customized Functions

# Design Specifications hBox2C P (MPEG-4 HD)



Front Panel	
IR	38KHz
3 Key	Standby, Ch+, Ch-
LED Display	4 Digit 7 Segment Display (GREEN)
Signal LED Light	Green
Power LED Light	Red

Rear Panel	
Cable In	F-Type (Female)
Cable Out	F-Type (Female)
USB2.0	2 Horizontal
HDMI 1.3	19 PIN Female
AV	3.5mm Sterio Male to RCA Male (Audio –Right (Red), Audio—Left (White), CVBS (Yellow))
SPDIF	Coaxial-Black
Power	12V=1A
IR	IR Extension
Wi-Fi	USB Wi-Fi Dongle

STB Smart Card Slot	
Smart Card Slot	On the Left of the Chasis

## Hardware Main Features of hBox2C P (MPEG-4 HD)

### CPU & Memory

CPU	GX 3201 H
CPU Frequency	660MHz, 32Bit
Flash	16MB
SDRAM	1Gbit

### Tuner

Brand	NXP TDA18250/MXL608
Input Signal Range	38-100dBuV
Input Impedance	75Ω

### Channel Decoding

Standard	DVB-C (ITU-T J.83A/C)
Demodulation	16,32,64,128,256QAM
Bandwidth	8M

### Conditional Access

Smart Card Slot	ISO7816
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### Video Decoder

Video Decoder	H.264,H263,MPEG-4, MPEG-2, MPEG-1, SP/MP/AP
Video Output	CVBS*1, HDMI1.3
Video Format	PAL/NTSC
Aspect Ratio	4:3/16:9
Resolution	HD&SD to 576P,720P,1080i de-code&1080P Display

### Audio Decoder

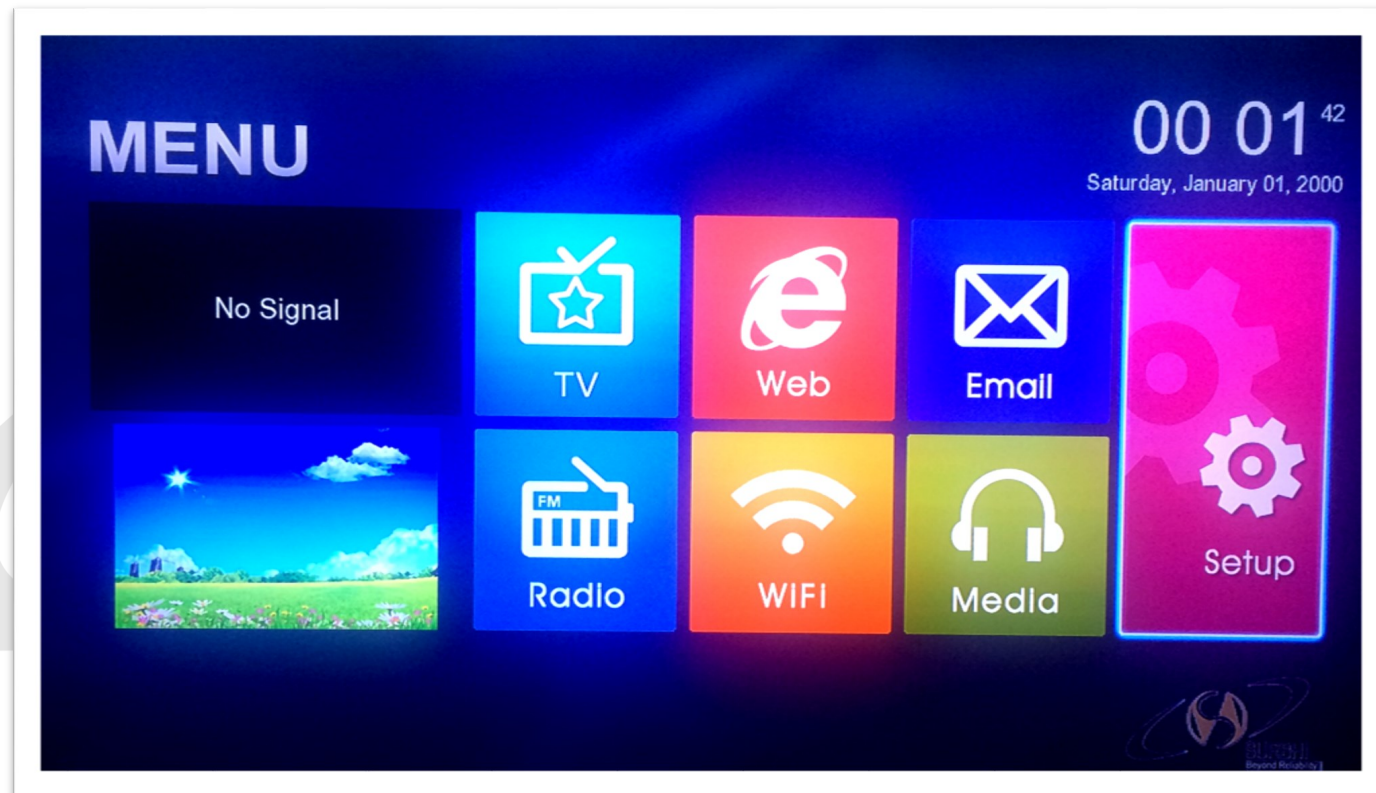
Audio Decoder	MPEG1,MP3,MPEG-4 AAC & AAC +, DRA, AC-3& DD+( Optic)
Audio Output	S/PDIF( Optic)
Audio Mode	Left/Right/Stereo
Sampling Frequency	32KHz, 44.1KHz, 48KHz

### Environment

Operation Temperature	0°C~75°C
Storage Temperature	-15°C~70°C
Working Power Consumption	7W
Standby Power Consumption	<1W

## Menu / GUI of hBox 2C P (MPEG-4 HD)

**DVB-C MPEG-4 Hybrid HD STB** : It is an enhanced type of HD STB, based in Linux System and with functions, like web TV, yahoo weather, google map, YouTube, Home Security, Daily-Motion, DLNA.



# *hBOX 2C mini(MPEG-4 HD)*

## ■ *Features (MPEG-4 HD)*

- Compliant with DVB-C Standard Fully
- MPEG-4/H.264 Decoded
- PAL: 576i/576p/720p/1080i/1080P
- NTSC: 480i/480p/720p/1080i/1080P
- CAS Supported
- USB WIFI Dongle both Internet and Interactive Function
- USB PVR and Time-shift
- Auto Network Lock as per Different Network Name/ID and Home TS
- NIT Auto Detect as per Service ID
- STB Guide/Genre as per BAT Table (Bouquet)
- Boot-up Logo, Radio Image and Watermark
- 7-day EPG with Synopsis and Rolling Event
- Channel Booking and Editing
- Email, Parental Lock and Timer
- Audio, Video and Picture Setting
- STB Upgrade via USB, OTA or Serial Port
- Auto, Manual or Full Channel Search
- Last Channel Memory and Multi-language
- 32 Around Favorite Group

# Design Specifications (MPEG-4 HD)

Front Panel



RCU

Front Panel	
LED Indicator	Green for Signal, Red for Standby
IR Sensor	38KHz

STB with Wifi Dongle



Rear Panel	
Cable In	F-Type
RCA Output	1*AV Jack@3.5
USB2.0	2
HDMI	HDMI 1.4
IR Extension	IPCS
Power Adaptor Socket	12V=1A

## Hardware Specifications (MPEG-4 HD)

CPU	
Main Chip	3G3113UI SoC.
CPU Frequency	1000DMIPS@660MHz, 32bit
Flash	8MB
RAM	DDR3 128MB

Tuner	
Brand	MXL608
Input Signal Range	38-100dBuV
Input Impedance	75Ω

Environment	
Operation Temperature	0°C~75°C
Storage Temperature	-15°C~70°C
Working Power Con-	7W
Standby Power Con-	<1W

Conditional Access	
COB	NSTV/Ensurity

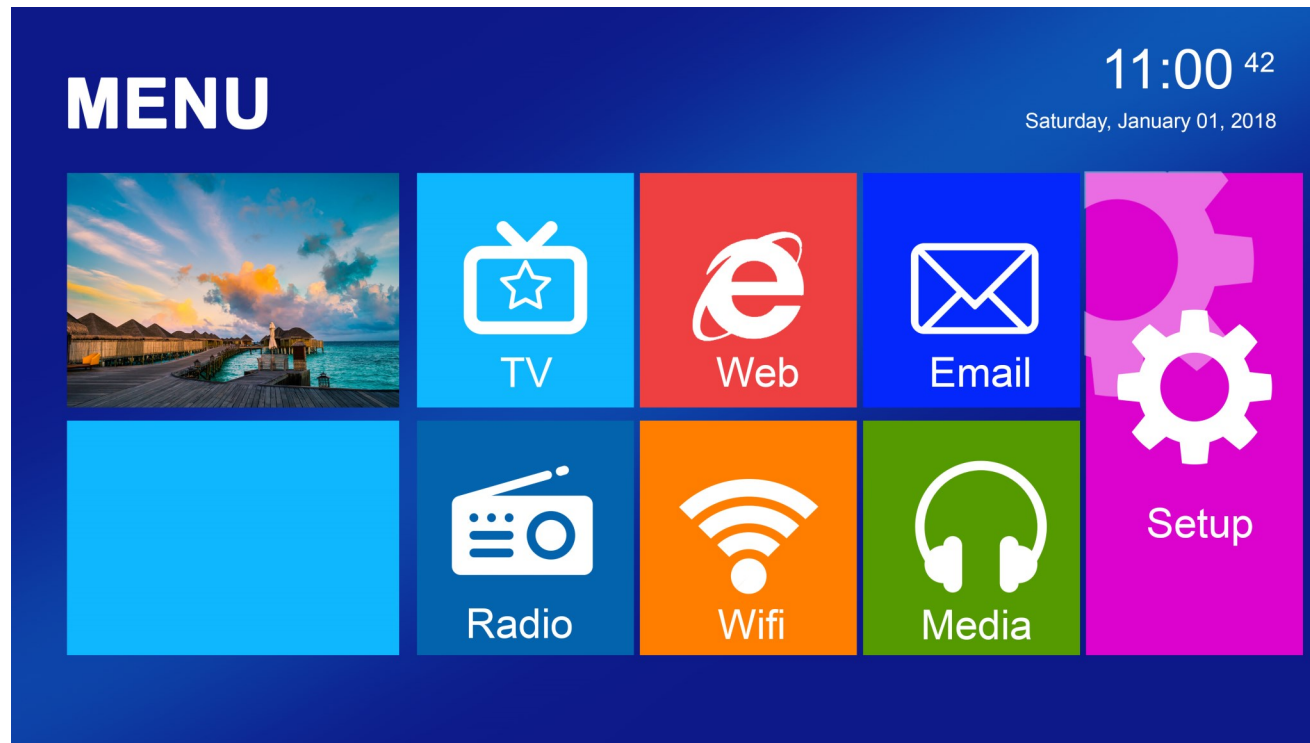
Channel Decoding	
Standard	DVB-C (ITU-T J.83A/C)
Demodulation	16,32,64,128,256QAM
Bandwidth	8M

Audio Decoder	
Audio Decoder	MPEG1, MP3, MPEG-4 AAC&AAC+, DRA, AC-3& DD+
Audio Output	HDMI1.4, A-L, A-R
Audio Mode	Left/Right/Stereo
Sampling Frequency	32KHz, 44.1KHz, 48KHz

Video Decoder	
Video Decoder	H.264, MPEG-4, MPEG-2, MPEG-1, SP/MP/AP
Video Output	CVBS*1, HDMI1.4
Video Format	PAL/NSTC
Aspect Ratio	4:3/16:9
Resolution	HD&SD to 576P,720P,1080i de-code&1080P Display



# Menu / GUI (MPEG-4 HD)





## hBox2C E (MPEG-4 HD)



Main Chip : GX3113H Soc.

Smart Card Slot : ISO7816

CPU Frequency : 660MHz, 32bit



Memory : Flash: 16MB, DDR3: 1Gbit

Video Decoder : H.264,H263,MPEG-4, MPEG-2, SP/MP/AP



Resolution : HD&SD to 576P,720P,1080i decode



## ■ Features hBox2C E (MPEG-4 HD)

- Inbuilt YouTube, Weather, Google Map Applications
- Wifi connectivity via USB Dongle.
- Fully Compliant with DVB-C Standard
- MPEG-4&H.264,H.263,MPEG-2,JPEG/MJPEG Video Decoding Dolby AC3,DD+,AAC,HE-AAC,MP3,MP3,MPEG1/II Audio Decoding
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- STB Tuning according to Customized Network Name/ID/Home Frequency
- STB Tuning through NIT Search Supported
- Boot-up Logo/Radio Image/Water Mark Supported
- Dexin /NSTV/Suma vision/Telecast/ABV/ Etc CAS Supported
- STB Automatic Update at Background if Any Change of LCN Number/Channel Name/New Service/TP/NIT Version Supported
- Automatic Symbol Switch between Scrambled Service and Unscrambled Service Supported
- TV Guide or Bouquet from BAT Optional
- Bright, Contrast and Saturation Adjustable
- 7 Day EPG, LCN, Games, Timer, Parental Lock and Favorite Group Supported
- Last Channel Memory Supported
- Reminder/Sleep/On Timers Display and Management Supported
- USB PVR and Time-Shift Supported
- Forced OTA/RS232 SW Upgraded Supported
- OTT Functions like YouTube and etc. Supported
- Open to Latter Customized Functions

# Design Specifications hBox2C E (MPEG-4 HD)



Front Panel	
IR	38KHz
3 Key	Standby, Ch+, Ch-
LED Display	4 Digit 7 Segment Display (GREEN)
Signal LED Light	Green
Power LED Light	Red



Rear Panel	
Cable In	F-Type (Female)
Cable Out	F-Type (Female)
USB2.0	Vertical
HDMI 1.3	19 PIN Female
AV	Audio-Right (Red), Audio-Left (White), CVBS-Yellow
SPDIF	Coaxial-Black
Power	12V=1A
IR	IR Extension
Wifi	USB Wifi Dongle

## Menu / GUI hBox2C E



# mBox4C mini (MPEG-4 SD)

CPU : GX3001H Soc

CPU Frequency : 450MHz

RAM : 16/32/64MBytes DDR3

Constellations : 16/32/64/128/256 QAM

Symbol Rates : 0.45-9.0Mbauds

Video Decoder : MPEG-4 SD

Advance Security: Yes, supports





## ■ *Features mBox4C mini (MPEG-4 SD)*

- Fully Compliant with DVB-C Standard
- MPEG-4/H.264 Decoded
- 720x480P@60Hz, 720x576P@50Hz
- NSTV / Ensurity CAS Supported
- USB PVR/Time-shift Supported
- Last Channel Memory & Multi-Language Supported
- Auto/Manual Scan Selectable and Network Search Available
- 7-Day EPG, LCN, Games, Timer, Parental Lock and Fav. Group Available
- Bouquet/TV Guide Function Optional
- S/W Upgrade via RS232(On Main board)/OTA/USB Optional
- NIT Auto Detect for Channel Change, LCN Change at Background Available

## Design Specifications mBox4C *mini* (MPEG-4 SD)

▶ Front Panel



▶ Rear Panel



▶ STB with RCU



### Rear Panel

Cable In	F-Type
USB	USB2.0
Power Adaptor	12V=1A
Working Temperature: 0°~70°	

### Environment

Operation Temperature	0°C~75°C
Storage Temperature	-15°C~70°C
Working Power Consumption	<7W
Standby Power Consumption	<1W

### CPU & Memory

CPU	GX3001H Soc
CPU Frequency	450MHz
Flash	8M Byte
DDR3	64M Byte
Demodulator	Embedded in the Main Chip



## Menu / GUI mBox4C mini (MPEG-4 SD)

