ARANTIASERIES



TURN KEY END TO END SERVICE

DELIVERY PLATFORM







ARANTIA CHRONOS SET-TOP-BOX (REF. 830102, 830104 & 830105)

CHRONOS STB IS A DIGITAL, ADVANCED, INTERACTIVE HIGH DEFINITION SET-TOP BOX DESIGNED TO RECEIVE IP SERVICES ALONG WITH THE ABILITY TO DEVELOP INTERACTIVE APPLICATIONS AND SERVICES ON ITS INTEGRATED BROWSER.

- MPEG2 and MPEG4 AVC / H264 High definition device up to 1080p60 Ecodesigned device with very low power consumption (~5W)
 - Arantia Chronos PoE: Variant with Power-over-Ethernet support, 802.3af compliant
 - Arantia Chronos WiFi: Wireless version with 802.11bg support









REMOTE MANAGEMENT STANDARD

HDMI

LOW POWER CONSUMPTION





ARANTIASERIES

ARANTIA CHRONOS SET-TOP-BOX

DESCRIPTION

The **ARANTIA CHRONOS STB** is an advanced, interactive, digital high definition set-top box that is designed to receive IP services along with the ability to develop interactive applications and services on its integrated browser.

Our new STB, The Chronos: Small form factor, powerful, robust, reliable,...

Turn Key End to End Service Delivery Platform

Within ARANTIA Series end to end IPTV service delivery platform, from the digital head end to the STB, this IPTV MPEG 4 AVC STB ensures the deployment of Triple Play Services.



MAIN FEATURES

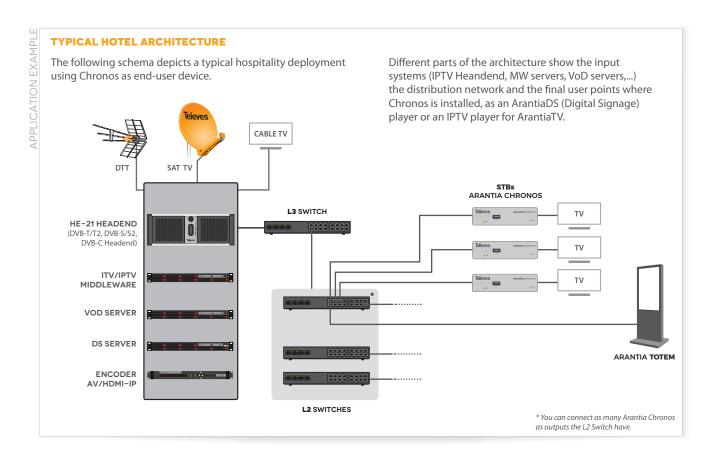
- Advanced user interface navigation via embedded browser.
- HDMI interface with HDCP copy protection.
- Dual USB 2.0 high-speed communication port.
- TV Interactive interface (TVI) and IR extender.
- Remote configuration and management.
- Open-standards based software stack.
- Modular software architecture ready for features and services development.
- HTML5 web-browser with extended JavaScript API.

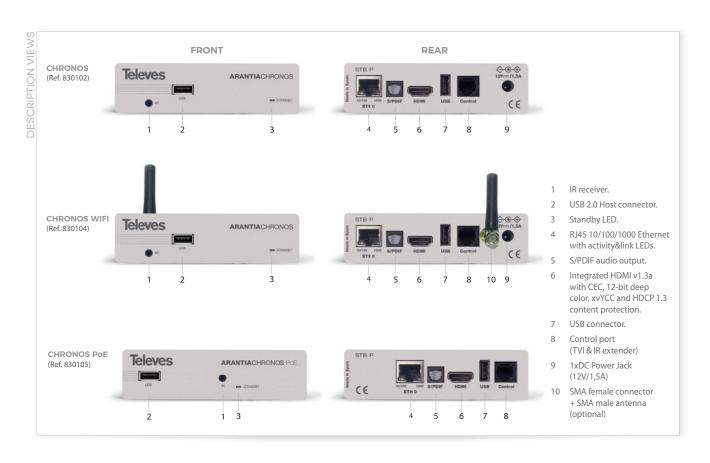
HIGHLIGHTS

- MPEG2 and MPEG4 AVC / H264
- High Definition device up to 1080p60
- **Ecodesigned device** with very low power consumption (~5W)
- Ariantia Cronos PoE: Variant with Power-over-Ethernet support, 802.3af compliant
- Ariantia Cronos WiFi: Wireless version with 802.11bg support

REF.	DESCRIPTION	EAN 13
830102	Arantia Chronos Set-Top-Box, High Definition	8424450161838
830104	Arantia Chronos Set-Top-Box, High Definition with WiFi Module	8424450176207
830105	Arantia Chronos Set-Top-Box, PoE	8424450177150







SYSTEM

Multicore Processor

Host CPU MIPS@700MHz Secure CPU MIPS@350MHz

512Mb DDR2 memory

512 Mb Nand flash memory

Dual HD video decoder

JPEG hardware acceleration

2D graphics acceleration

32-bits OSD

DATA PROTOCOLS

HTTP 1.1

HTTPS

HTML5.0 (372/555 points in html5test)

XHTML 1.1

Dynamic HTML

CSS3, CSS2

DOM 1.0 & 2.0

XML 1.1

JavaScript & AJAX

JSON

XMLHttpRequest

A/V PROTOCOLS

IPTV Multicast (IGMP v2/v3)

Video over UDP, RTP and HTTP

HTML5 audio and video tags

Frames & i-Frames support

A/V CAPABILITIES

VIDEO DECODING:

MPEG2 MP@HL

MPEG-4.2 ASP@L5 (up to HD resolution, 1-point GMC)

MPEG-4.10 (H.264) MP@L4.0 and HP@L4.0 $\,$

H.261

AVS

In-loop de-blocking filter for MPEG-4.10 (H.264)

Error concealment for MPEG-2 and MPEG-4.2

Elementary video stream bit rate

MPEG-4.2 SDTV (HDTV): 20 (40) Mbps maximum MPEG-4.10 (H.264) SDTV (HDTV): 20 (40) Mbps

MPEG-2 SDTV (HDTV): 20 (40) Mbps maximum

PROCESSING

Brightness, color and contrast controls for each output port

Hardware cursor (4096 pixels, 4-bpp, up to 255 pixels horizontally and vertically)

2D graphics accelerator (up to 175M pixels per second operation for most operations)

Line, Rectangle, Ellipse and Circle: generate a single-color line, rectangle, ellipse or circle with optional gradient fill

Blend: alpha blend one rectangular region onto another

Move: move a rectangular region to another location

Replace: modified version of Move Raster Operations: standard 256 Boolean operations

AUDIO DECODING:

Dolby Digital 5.1, Dolby Digital Plus 5.1

MPEG-1 Layers I, II and III (MP3) 2.0

MPEG-4 AAC-LC 5.1

MPEG-4 HE-AAC 5.1

FLAC

OGG vorbis

ADPCM DVI

G.711 (A-law and μ-law)

PICTURE CAPABILITIES

DECODING:

JPEG (SW decoded or HW accelerated decoding)

1x1 to 2048x2048 resolution

YCbCr and RGB (4:4:4 only) 4:4:4, 4:2:2 and 4:2:0

Baseline and progressive

PNG/MNG (SW decoded)

GIF (SW decoded)

BMP (SW decoded)

FONT/CLOSED CAPTIONS

TrueType (TTF)

PostScript Type1 (PFA/PFB)

Bitmap Distribution Format (BDF)

CID-keyed Type1

Compact Font Format (CFF)

OpenType fonts

SFNT-based bitmap fonts

Portable Compiled Format (PCF)

Microsoft Windows Font File Format (Windows FNT)

Portable Font Resource (PFR)

Type 42 (limited support)

SUPPORTED FORMATS

AUDIO

MPEG-1 Audio Layer 3 (MP3)

MPEG-1 Audio Layer 2 (MP2)

AAC, HE-AAC, ATRAC3, FLAC, OGG Vorbis & AC3

VIDEO

MPEG-1 System

MPEG2 Program (M2P), MPEG-2 Transport (M2T)

(188- and 192-bit packets)

MPEG-4.14 (MP4)

Matroska Multimedia Format (MKV)

Audio Video Interface (AVI)

Flash Video (FLV)

Resource Interchange File Format (RIFF)

IMAGE

JPEG, SVG, BMP, GIF, TIFF & PNG

SOFTWARE STACK

Linux kernel 2.6.29

Qt Libraries 4.8.7

DirectFB accelerated display driver

ArantiaBrowser (QtWebkit based)

GENERAL DATA

CERTIFICATIONS:

Low Voltage Directive 2006 / 95 / EC EMC Directive 2004 / 108 / EC

POWER CONSUMPTION:

Standby: < 1W

Operating (HD decoding): ~5W

DIMENSIONS:

Casing size (xyz) 115,4 x 33 x 86,6 mm



When you buy an Arantia Chronos STB you need the following products:

Universal remote control: Ref. 830207 (Basic) Ref. 830210 (Premium) PSU 18W (12V / 1,5 A): Ref. 830209 (EU) Ref. 830208 (UK)

HDMI Cable

Some optional products:

Keyboard (Ref. 830202)

■ IR Extender (Ref. 830203)

■ Wall mount support (Ref. 830212)

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