



Special Instrument
Development Corporation

MC4100 IP Set Top Box

OVERVIEW

The MC4100 is advanced HD mini Set Top Box ready for your IPTV service. This is specifically developed for hotels and hospitals industries. HDMI up to 1080p output, so that the customer can experience high-definition visual enjoyment.

FEATURES

Up- or Down- Scaling video or graphic images to a specified resolution.

Ordering and merging (alpha-blending) of up 8 video / graphic source.

Brightness, contrast and saturation control.

TV decoding to NTSC or PAL standards.

(composite and S-video)

HDMI digital video formatting and transmission.

Support 24 or 36-bit RGB / YCbCr HDMI display format.

Support CVBS (NTSC / PAL) / S-Video output.





MC4100

FEATURES

Audio Processing

32-bit Digital Signal Processor (DSP)
DSP operating at up to 350MHz
Audio Over HDMI

Security Processing

Security CPU (XPU)
Secure boot loader – chip boots from the embedded flash only (trust boot block)
Dedicated 350MHz MIPS 4KEc CPU to securely execute the DRM and the conditional access software
Encrypted DRAM and flash memory, secure boot loader, secure PKI, encrypted I / O interfaces
Support a wide variety of DRM / CA solutions

SPECIFICATIONS

Video Decoder

MPEG-1 、 MPEG-2 MP 、 MPEG-4.2 ASP@L5 (720p)
MPEG-4.10 (H.264) 、 DivX V3.11 、 WMV9 、 SMPTE 421M (VC-1)
AVS Jizhun profile L2.0, 4.0 & 6.0 、 RMVB...

Audio Decoder

MPEG-1 Layers I, II, III (MP3) 2.0 、 WMA9 2.0 WMA9 Pro 5.1
MPEG-4 AAC-LC5.1, MPEG-4 HE-AAC 5.1, MPEG-4 BSAC 2.0
DTS 、 FLAC 、 OGG vorbis 、 G.711 (A-law and u-law)
Dolby Digital Plus

Security Support

WM DRM-ND and WM DRM-PD 、 DTCP / IP
HDCP for DVI and HDMI 、 Widevine Cypher Virtual SmartCard
Irdeto Access 、 SecureMedia 、 ARIB, ATSC, DVB-CI and DVB-CSA

Output Interface

HDMI1.3a with CEC support
(Resolution / up to 1920 x 1080p)
Composite CVBS (NTSC/PAL) / S-video

Software

Embedded Linux 、 Advanced Graphical User Interface
SiDC JavaScript API for IPTV and DVB function control
Support Multi Language 、 Support VOD and Multicast IPTV

Memory

NAND Flash / 256MB 、 DDR2 / 512MB

Dimension & Weight

W x D x H / 115 x 85 x 30 mm

Power Requirement

12VDC 、 Consumption / 5W