



The STMC-MX is a high definition, multi-codec, set top media center with a digital video recording option for hybrid IPTV, digital terrestrial/satellite/cable services.

Full Codec Support

The STMC-MX supports all the video codecs being deployed and planned for high definition and standard definition IPTV and digital broadcast services: H.264, MPEG-2 and Windows Media 9. Full scaling between high definition and standard definition provides the widest possible range of service options.

Audio/Video

The STMC-MX is uncompromising in its support for exceptional audio/visual quality supporting a wide range of output resolutions up to 1080p. The STMC-MX is able to provide customers with a full home cinema experience with support for HDMI, HDCP and Dolby 5.1 audio.

IPTV

The STMC-MX supports IPTV broadcast, multicast and video on demand services for all codecs. Advanced buffering technology ensures excellent quality IPTV support over the public internet. Embedded scaling enables IPTV support for standard and high definition services using bit rates from as low as 350kbps up to 20 Mbps. The optional hard drive enables progressive download IPTV services.

Digital TV

The STMC-MX supports up to two digital terrestrial, cable and satellite feeds via plug-in tuner options. The optional hard drive enables full digital video recording features.

Content Protection

A common interface module ensures support for all the major DVB conditional access systems. Embedded Microsoft® DRM and AES decryption enables full support for IPTV 'virtual' conditional access systems.

Extensibility

The STMC-MX supports Fusion Toolkit, a full development environment, including Linux APIs and JavaScript extensions for partner customisation. CompleteTV's unique rapid hardware enhancement services ensure the STMC-MX is also the industry's leading OEM development platform for customised products.

Upgrades

The STMC-MX supports field upgrades of codecs, operating system and middleware. Improvements to your service and future functional extensions to codecs can be downloaded using the secure CTV update services.

Features - Quick View

- High definition codecs - H.264, WMV9, MPEG-2
- Supports all IPTV services
- Twin digital tuners, DVB-T/C/S2
- Digital video recorder (DVR)
- Common Interface Module
- Software DRM/CA support
- Field upgradeable
- Fully customisable with APIs and Javascript
- CE/FCC approved
- Available on either Linux or Windows CE platforms

Applications

Hybrid IPTV and DVB services with DVR

The STMC-MX can provide combined IPTV and DVB services, with support for pause live TV, scheduled recordings and simultaneous play and record of different channels.

High definition VoD

Using its progressive download services, the STMC-MX can support pre-downloaded standard and high definition IPTV content.

DVD Quality IPTV services

High quality IPTV services using controlled bandwidth networks and H.264 codecs enable DVD-quality hybrid digital services at low bandwidth.

Public IPTV services

The STMC-MX uses advanced buffering and media management to ensure excellent quality of service for IPTV over public internet connections with minimal bandwidth requirements.

Managed IPTV and interactive services

An end-to-end managed service can be implemented by combining the STMC-MX, Fusion User middleware and Fusion Server management software.

Customised services

With its extensive API library and Fusion-Toolkit software the STMC-MX is the ideal platform for a wide variety of customised video services.

Options

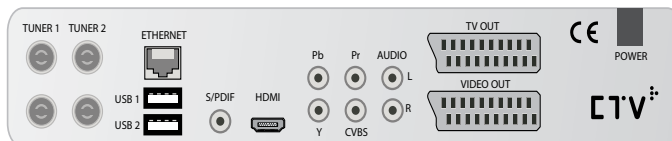
STMC-MX Hardware

Base platform	Ethernet, dual USB, S/PDIF, HDMI, RCA video and audio, dual SCART, internal PSU, remote control
Options	DVB-T tuners (one or two) DVB-C tuners (one or two) DVB-S2 tuner (one) 80 GB hard drive (internal) Common interface module Microsoft DRM/Other CA
Shipping kits	Country specific power connectors SCART/RCA cable options

Fusion Software Options

Fusion Toolkit Web	ANT Galio HTML/Javascript application development framework
Fusion Toolkit SDK Win CE	.NET application development environment
Fusion Toolkit SDK Linux	CompleteTV Linux API development environment
Fusion User	User interface software options
Fusion Server	Embedded support for Fusion Server management

Technical Specifications



Physical connections	Twin RF antenna input and output for DVB tuners; 10/100 BaseT auto-sensing, auto-negotiation, auto MDI/MDIX RJ45 Ethernet; dual USB 2.0 on rear; single USB 2.0 on front; S/PDIF coax for digital audio; HDMI with HDCP support; component YPbPr standard and high definition output; composite CVBS output; RCA analog stereo out; dual SCART output with support for composite, RGB, S-video and stereo audio.
Video	Profiles: MPEG-2 MP@HL; H.264 Main profile L.1 to L.4.1; Windows Media Video 9 MP@HL. Max bit rate 20 Mbps. Resolutions: 480i/p, 576i/p, 720p, 1080i/p output; up and down scaling across resolutions. TV formats: PAL B/D/G/H/I/M/N, NTSC
Audio	Profiles: MPEG-1/2 layer I, II and III; MPEG-2/4 AAC LC and HE; Windows Media Audio 9; AC3 pass through S/PDIF; Dolby Digital (option). Max bit rate 192 kbps. Features: Stereo down mix
IPTV	Broadcast, multicast, unicast, VoD, MPEG-2 TS, TCP, UDP, RTP, RTSP, IGMP version 2/3, DHCP client, ICMP
Digital broadcast	DVB-T ETSI EN 300 744 (option), DVB-C ETSI EN 300 429 (option), DVB-S2 ETSI EN 302 307 (option)
Content protection	Microsoft DRM (option); HDCP on HDMI interface (option); Macrovision 7.01 copy protection (option); AES to 256 bits, DES/3DES, RC4 to 128 bits; common interface module
User interface	RC6 infrared remote control; multi-function navigation buttons on front panel; picture in graphic; on screen display; standby on/off modes; full control of video placement and scaling.
Graphics	Two graphics planes (one for video, one for graphics); 32-bit ARGB with 'per-pixel' alpha blending
Management	Full API control of all system parameters; embedded web user configuration; remote HTTP and TFTP upgrade
Operating system	Linux 2.6.12 or Windows CE 5.0
Memory	RAM: 128 MB; Flash memory: 8-64 MB
Power requirements	Internal PSU: 100-250v AC, 50-60 Hz, 1000mA
Operating environment	Operating temperature: 0°C to 45°C.
Dimensions	380 x 240 x 60 mm (out of packaging)
Weight	2.0 kg