



Kamai™ 400/450 Hybrid Media Player



Robust & Flexible Platform for Advanced Media Delivery

Kamai is a next-generation hybrid media player that offers a cost-effective way to deliver advanced hybrid TV and streaming services such as over-the-top (OTT) video and Web media services. It also enables personal media sharing throughout a subscriber's home via a wired or wireless network connection. Compact and stylish, Kamai is a powerful and flexible platform for decoding popular video formats, including MPEG-4 (AVC/H.264), MPEG-2 and VC-1, as well as advanced audio formats and transcoding capabilities. Kamai is also compatible with 3D programming from major broadcasters.

Optimized for Digital Video Broadcast & Streaming Services

Kamai is ideal for hybrid TV and OTT streaming services. It supplements traditional linear TV, such as terrestrial, satellite and digital cable sources with streaming content delivered over the Internet. Kamai's integrated tuner capabilities provide digital HDTV reception from a variety of broadcast sources. Its HTML5-compliant browser provides an open and flexible platform for application development. Kamai supports HLS to enable adaptive streaming for delivery of video content, including HD, over an unmanaged network. Kamai also provides DRM support for content protection while enabling creative licensing terms and side-loading (portability) applications.

Hassle-free Installation & Setup

Kamai easily integrates with existing home networks and broadband services. The integrated Ethernet, MoCA* and Wi-Fi** (802.11 b/g/n) connections provide hassle-free installation and setup. Subscribers can also conveniently download and transfer their personal media via the built-in USB connector. With Kamai, subscribers can blend and connect to a variety of traditional broadband services, as well as extend the capabilities of their existing home networks for more content delivery choices.

High Performance

The dual-core MIPS32® CPU and advanced hardware accelerated 3D graphics engine provide a more responsive and compelling user experience. It supports popular third-party middleware and digital rights management (DRM) solutions such as Conklin-Intracom, Latens, Minerva, Nokia Siemens Networks, Verimatrix, and Widevine.

Energy Efficient

Kamai incorporates Entone's DeepSleep™ technology that reduces power consumption up to 99% in standby mode when compared to competitive products. DeepSleep enables devices to resume full operation nearly immediately based on customer activity or at a prescheduled time—for example to record a program or receive a scheduled software update. Kamai surpasses energy efficiency guidelines and regulations from the European Union's Eco-Design of Energy-Using Products (EuPs) and United States' ENERGY STAR program.

Kamai enables service providers to increase their subscriber base and generate more revenue by offering subscribers more advanced services and an enhanced user experience.

Key Features

- ◆ Powerful platform for delivering hybrid TV and streaming media services (OTT)
- ◆ Easily integrates with existing in-home networks and broadband services
- ◆ Supports advanced video and audio formats, including MPEG-4 (AVC/H.264), MPEG-2, VC-1, Dolby Digital, Windows Media, MP3
- ◆ Supports popular networking technologies: HomePNA, MoCA*, Wi-Fi**, and HomePlug**
- ◆ Built-in USB 2.0
- ◆ Dual processor and advanced 3D graphics acceleration engine
- ◆ CableCARD support for compatibility with legacy conditional access systems (Model 450 only)
- ◆ Optional ATSC, QAM or ISDB-T tuner for broadcast reception
- ◆ DeepSleep technology for reducing power consumption up to 99% in standby mode

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Technical Specifications

Video Formats

- HD/SD H.264/AVC Main and High Profile to Level 4.1 (HD), Level 3.1 (SD)
- VC-1 Advanced Profile @ Level 3, Simple and Main Profile
- HD/SD MPEG-2 Main Profile at Main and High levels
- MPEG still image decode
- SD MPEG-4 P2 SP/ASP

Audio Formats

- AAC LC, AAC LC+SBR Level 2, AAC+ Level 2, AAC-HE
- Dolby® Digital, Dolby Digital Plus
- MPEG I layers 1, 2, and 3 (MP3)
- Windows Media® and Windows Media Pro audio
- 3D SRS audio support
- Transcoding operations including AAC to DTS 5.1 or AC3+ to AC3

Advanced Graphics

- High-performance 3D-effects graphic engine
- Studio-quality text and graphics at HD resolution
- Digital noise and contour reduction (DNR/DCR)
- Motion-adaptive de-interlacer with reverse 3:2/2:2 pull-down

Video Outputs

- NTSC-M/J, PAL-BDGHIN/M/Nc, SECAM analog outputs
- 480i/480p/576i/576p/720p/1080i/1080p output formats
- Macrovision® 7.1/NICAM support
- HDMI 1.3/DVI 1.0 Mac and PHY with HDCP 1.1

Hybrid Tuners

- ATSC
- QAM
- ISDB-T

Content Security

- AES/1DES/3DES/CSS/CPRM/DTCP copy protection
- MPEG-2/DIRECTV/DVB/ARIB data transport demux with 1DES/3DES/DVB/Multi2/AES descramblers

Back Panel Connectors

- RJ-45 10/100Base-T Ethernet
- HDMI
- DC power
- S/PDIF electrical transmitter
- RF output
- Composite video
- Stereo audio

Front Panel

- Indicators for standby, network status, HD and recording status
- Single USB 2.0 Host Type A
- IR receiver
- CableCARD with tuner option (Model 450 only)

CPU and Memory

- Broadcom BCM7410 with 400-MHz Dual-Core CMT MIPS32/16e class processor
- 256MB (Model 400) / 512MB (Model 450)

Mechanical

- 6.3w x 4.75d x 1.2h inches
- 5-35°C operating temperature, 25-95% relative humidity
- Power 1.2A maximum at 12V
- ENERGY STAR compliant

Global Headquarters

20863 Stevens Creek Blvd, Suite 300
Cupertino, CA 95014
U.S.A.
T: +1 (408) 861-1400
F: +1 (650) 240-0135

Asia Pacific

Level 28, Saxon Tower
7 Cheung Shun Street
Lai Chi Kok, Hong Kong
T: +852 3148 3500
F: +852 3148 3588

Europe, Middle East & Africa

Gaston Crommenlaan
4-B501, 9th Floor
9050 Ghent
Belgium
T: +32 9 281 17 53
F: +32 9 270 33 15

www.entone.com

* MoCA not available on Model 400 but is standard on Model 450

** Wi-Fi and HomePlug optional on all models

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