



# Kamai™ 410/460

## Streaming Hybrid OTT Receiver



### 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
- ◆ Integrated networking technologies for Ethernet and WiFi (HomePlug optional)
- ◆ Built-in USB 2.0
- ◆ Dual processor and advanced 3D graphics acceleration engine
- ◆ Optional DVB-C, DVB-S2 or DVB-T tuner with smart card slot
- ◆ DeepSleep technology for reducing power consumption up to 99% in standby mode

### ***Robust & Flexible Platform for Advanced Media Delivery***

Kamai is a next-generation receiver 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 and WiFi (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 Cubiware, Conklin-Intracom, Hibox, Latens, Minerva, Nokia Siemens Networks, Nordija, 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. DeepSleep devices are compliant with the European Commission's Code of Conduct v8 that defines three different operating modes: standby, auto power down, and on. Kamai surpasses energy efficiency guidelines and regulations from the European Union's Eco-Design of Energy-Using Products (EuPs).

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

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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

- DVB-C
- DVB-S2 with DiSEqC 1.2
- DVB-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
- SCART

### Front Panel

- Indicators for standby, network status, HD and recording status
- Single USB 2.0 Host Type A
- IR receiver
- Smart card slot

### CPU and Memory

- Broadcom BCM7413 with 400-MHz Dual-Core CMT MIPS32/16e class processor
- 256MB (Kamai 410) / 512MB (Kamai 460)

### Mechanical

- 160w x 120d x 30h mm
- 5-35°C operating temperature, 25-95% relative humidity
- Power 1.2A maximum at 12V
- Compliant with European Union's Energy Using Products Directive for Standby Regulation

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