



enriching the
operator-
consumer
connection™



Key Features

- Offer multi-room video services using existing in-home coax wiring
- Reliable HD video distribution throughout the home
- Enhance OTT viewing experience with Encast™ ABR streaming technology
- Dual processor and advanced hardware 3D graphics acceleration engine
- Energy efficient with DeepSleep™ for reducing up to 99% of power consumption in standby mode

Use Existing In-home Coax to Reduce Installation Cost and Complexity

Entone's MoCA solution enables you to offer advanced multi-room video services without new wiring. MoCA utilizes existing in-home coax to replace Ethernet wiring. Eliminating new wiring reduces the time, complexity and cost of new subscriber installation. That means technicians spend less time at each home and you can increase the number of new installations per day.

Additionally, when subscribers move or churn, your investment remains intact in the equipment rather than home wiring.

High Performance

To tackle the most advanced user interfaces and applications, Entone's MoCA-based hybrid TV devices provide a dual-core CPU, hardware FPU and hardware accelerated 2D/3D graphics. Their advanced video decoders support popular video formats including MPEG-2, H.264/AVC, VC-1, Scalable Video Codec (SVC) and Multiview Video Coding (MVC). These devices also support 1080p60 output and are compatible with 3D programming from major broadcasters.

Compatible with Any Video Delivery Network

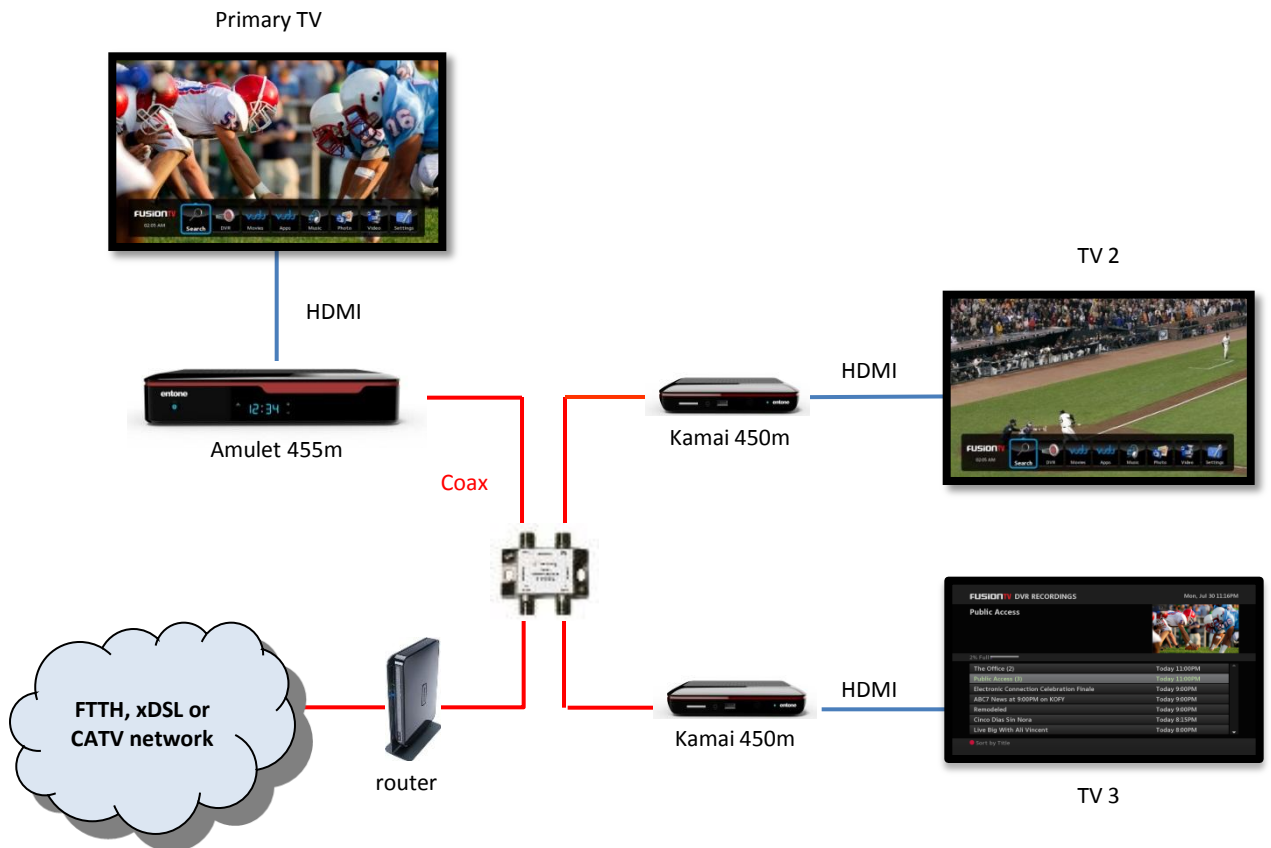
MoCA is compatible with cable, FTTH, xDSL and satellite delivery networks. Within a home it provides up to 175 Mb/s throughput, nearly double the speeds of typical Ethernet networks. It also provides managed Quality of Service (QoS), which enables reliable distribution of HD video, whole home DVR and media sharing.

Ready-to-Deploy

Entone's Amulet 455m and Kamai 450m support popular middleware from Conklin-Intracom, Cubiware, Minerva Networks and Nordija. DRM support for content protection from Latens, Secure Media, and Verimatrix enables creative licensing terms and side-loading (portability) applications.

Optimized for Streaming Media Services

Amulet 455m and Kamai 450m offer advanced applications such as an HTML5-compliant browser that provides an open and flexible platform for application development. By supporting adaptive bit-rate (ABR) streaming technology such as HTTP Live Streaming (HLS), these devices can enable continuous video delivery over an unmanaged network.



Multi-TV application



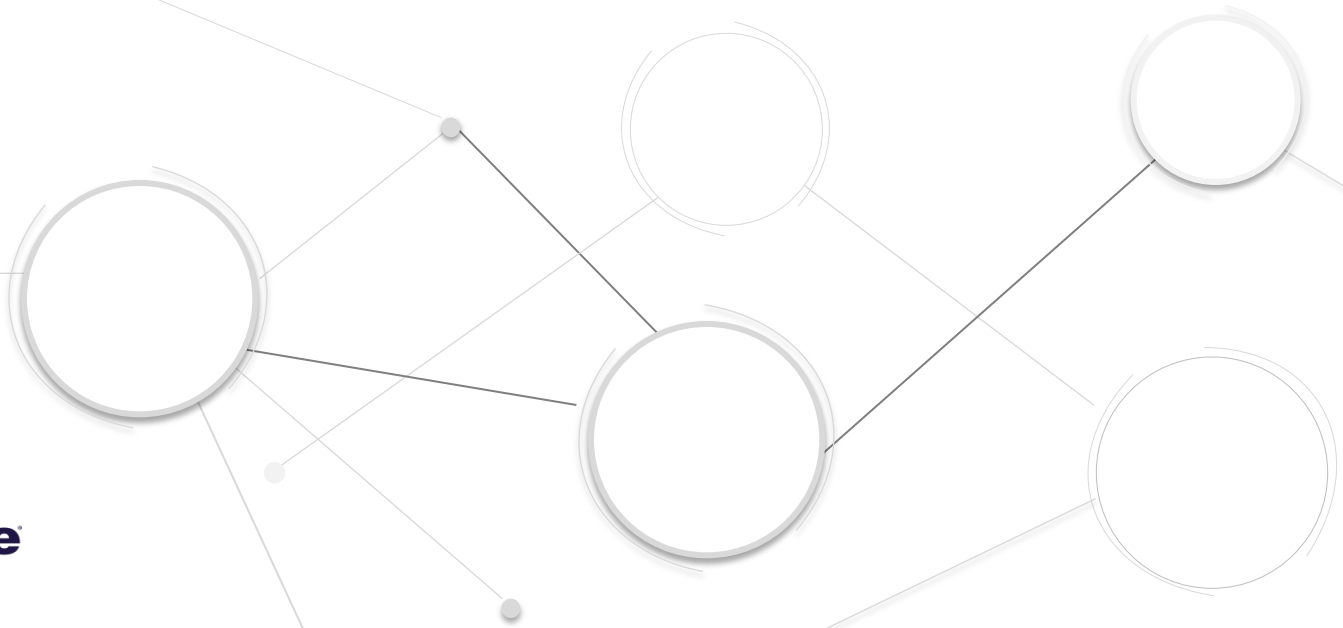
Convenient Installation Options

With its small footprint and lightweight design, Kamai 450m is perfectly suited for installation behind flat screen TVs. A simple and flexible mounting kit provided with Kamai 450m is compatible with most flat screen TVs whether the TV is wall mounted or on a table top. An IR tether allows the Kamai 450m to be mounted in locations without line of sight access for IR remote control.

Energy Efficient

Amulet 455m and Kamai 450m incorporate Entone's patent-pending DeepSleep™ technology for reducing power consumption by up to 99% in standby mode. DeepSleep enables the devices to resume full operation almost instantly, based on subscriber activity or at a prescheduled time – such as, to record a program or to receive a scheduled software update.

Entone's hybrid TV devices surpass energy efficiency guidelines and regulations from the European Union's Eco-Design of Energy-Using Products (EuPs) and United States' ENERGY STAR.





TECHNICAL SPECIFICATIONS for AMULET 455m

Video Formats*	<ul style="list-style-type: none"> • HD/SD H.264/AVC Main and High Profile to Level 4.1 (30 fps), Level 3.1 (60 fps) • 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 • Scalable Video Coding (SVC): <ul style="list-style-type: none"> – 2-layer SVC scalable high-profile for 720p60 to 1080p60 – Spatial scaling from 1 to 4 scale factor – SVC 3D support for L/R and O/U frame packs • Multiview Video Coding (MVC): <ul style="list-style-type: none"> – Dual 1080i or single 1080p60 decode
Audio Formats*	<ul style="list-style-type: none"> • 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
Video Outputs	<ul style="list-style-type: none"> • 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
Advanced Graphics	<ul style="list-style-type: none"> • 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
Content Security	<ul style="list-style-type: none"> • AES/1DES/3DES/CSS/CPRM/DTCP copy protection • MPEG-2/DIRECTV/DVB/ARIB data transport demux with 1DES/3DES/DVB/Multi2/AES descramblers
Energy Management	<ul style="list-style-type: none"> • Power 7W maximum at 90-264VAC, 48-63Hz • ENERGY STAR compliant
Type Approvals	<ul style="list-style-type: none"> • FCC Part 15, CEA-60065



TECHNICAL SPECIFICATIONS for KAMAI 450m

Front Panel	<ul style="list-style-type: none"> • Illuminated standby indicator (on/standby) • IR receiver • USB 2.0 Host Type A (<i>Kamai 450m only</i>) • SD memory card (<i>Kamai 450m only</i>) • Factory reset button (bottom of unit)
Back Panel Connectors	<ul style="list-style-type: none"> • F-connector with loop-through • RJ-45 10/100Base-T Ethernet • HDMI • S/PDIF optical transmitter • Composite video • Stereo audio • DC power
CPU & Memory	<ul style="list-style-type: none"> • Broadcom BCM7418 • 900MHz Dual-core CMT MIPS 5000 class processor • 256MB Flash • 512MB DDR3 SDRAM
Mechanical	<ul style="list-style-type: none"> • Amulet 455m dimensions: 10w x 7d x 1.75h inches • Kamai 450m dimensions: 4w x 4d x 1h inches • 5-35°C (40-95°F) operating temperature • 30-95% relative humidity

ORDERING INFO

Part Number	Description
99-804000-13	Amulet 455m Media Recorder with MoCA & 320GB HDD
99-805000-13	Amulet 455m Media Recorder with MoCA & 500GB HDD
99-880000-01	Kamai 450m Media Receiver with MoCA