



VIEWRD

Recording Devices

AMULET 6

FULLY-FEATURED 4K UHD RECORDING DEVICE, INCORPORATING ADVANCED WI-FI OR MOCA OPTIONS, TO DELIVER THE NEXT GENERATION OF IPTV / OTT SERVICES TO MULTIPLE TV SCREENS AROUND THE HOME.



Technology advancements continue to drive consumer demand for a more interactive TV and higher video quality viewing experience. For service providers, this means constant updates and investments in the latest technologies that power these applications all while keeping cost, quality and performance in check. With the Amulet 6 series of recorders, operators are able to provide these next generation of services in the highest possible resolution while reaping the cost benefits of reduced bandwidth and installation times.

Key Benefits

- Reduce required bandwidth by up to 50% compared to H.264
- Superior 4K Ultra-HD resolution, 4 x greater than 1080p for best viewing experience
- Increases recording capability up to 150 hours HD quality video; WHDVR; Fusion Home
- Reduces potential user error and cost of adding SD card and PLTV
- Dual 720p30 transcoding to access and view content on additional video devices such as tablets and phones
- Easily integrates with existing inhome networks and broadband services
- Energy efficient with DeepSleep™ technology for reducing power consumption up to 99% in standby mode

AMT
advanced media technologies®



More Hard Drive, More Options

As advancements in video quality drives consumer demand, the need for more hard drive storage capacity has never been greater. The Amulet 6 harnesses that demand for quality by offering a standard 500GB hard drive with an upgrade option to 1TB. This serves both the operator and consumer across multiple fronts, including:

- Up to 150 hours of HD record capability.
- Whole-home DVR involves supporting multiple TV sets and consumers throughout the home, boosting the need for more memory to record a family's diverse viewing habits.
- Fusion Home Monitoring capability is designed to enable recording of monitor viewing as part of the enhanced value package. From saving that favorite moment as your baby rolls over to ensuring the safety of your home through Fusion Home Monitor and the Amulet 6.

Reduce Bandwidth, Reduce Costs

HEVC compression provides significant benefits to your network by:

- Improved compression as studies have shown that H.265/HEVC provides up to 50% better compression than H.264 and 35% bandwidth reduction during live encoding.
- Provides opportunity to distribute 4K Ultra-HD content without sacrificing bandwidth.
- Reach subscribers in the "last mile" that previously were difficult.

This results in your ability to reduce bandwidth, increase higher quality content and reduce costs through cutting transport costs over Content Delivery Networks (CDN) and streaming the content to lower bitrate connections.

Bring Your Own Device

Amulet 6 series introduces dual 720p30 transcoding to seamlessly access content to play on another video device thus reducing costs by allowing subscribers to interact with their TV service on devices owned by the subscriber such as tablets or smartphones.

Cloud-based Applications for a Connected Home Experience

Meet subscriber's demand by offering the most advanced online services and applications. Based on Broadcom's latest chipset, Amulet 6 series supports streaming video services like Netflix, VUDU, and YouTube*.

*Online services and applications may vary and are subject to middleware and third-party support.

No New Wires

The Amulet 6 series provides multiple distribution technologies meeting user needs without having to increase costs to deploy by allowing use of your existing in-home wiring with MoCA or to go wireless with Ultra-HD video-grade Wi-Fi.

Wireless (Optional)

Amulet 6 series provides flexible networking options to enable wireless video distribution throughout the home. Reduce installation time, cost and complexity of wiring a home with Quantenna's 802.11ac (5 GHz) 4x4 networking solution providing better coverage, superior performance and high quality of service (QoS).

When matched with an accompanying access point, Amulet 6 enables wholehome Wi-Fi transmission speeds over 1.7Gbps. Hassle-free installation and easy distribution of video throughout the home without wires.

Amulet 6 series provides a true videograde Wi-Fi client solution and costeffective architecture to accelerate the adoption of IP-based video services.

MoCA 2.0 (Optional)

Amulet 6 also supports a MoCA 2.0 option to enable multi-room video distribution without new wiring at double the throughput rate of previous generations. MoCA utilizes the existing in-home coax to provide IP connections throughout the home. Eliminating new wiring reduces the time, complexity and cost of new subscriber installation.

Technicians spend less time at each home and increase the number of new installations per day. Additionally, when subscribers move or churn, your investment remains intact in the equipment rather than the home wiring.

Bluetooth/BLE 4.0 (Optional)

The addition of Bluetooth technology improves wireless connectivity using low-power BLE technology to connect a variety of devices including smartphones and tablets using this technology.

The Amulet 6 series ensures that you have the best networking option to meet your customer's distribution requirements.

Ready-to-Deploy IPTV Solution

By supporting all of Amino's ecosystem partners, including the latest digital rights management developments and conditional access solutions, Amulet 6 enables you to quickly deploy a video service that also provides advanced cloud-based features for IPTV and over-the-top (OTT) streaming applications.

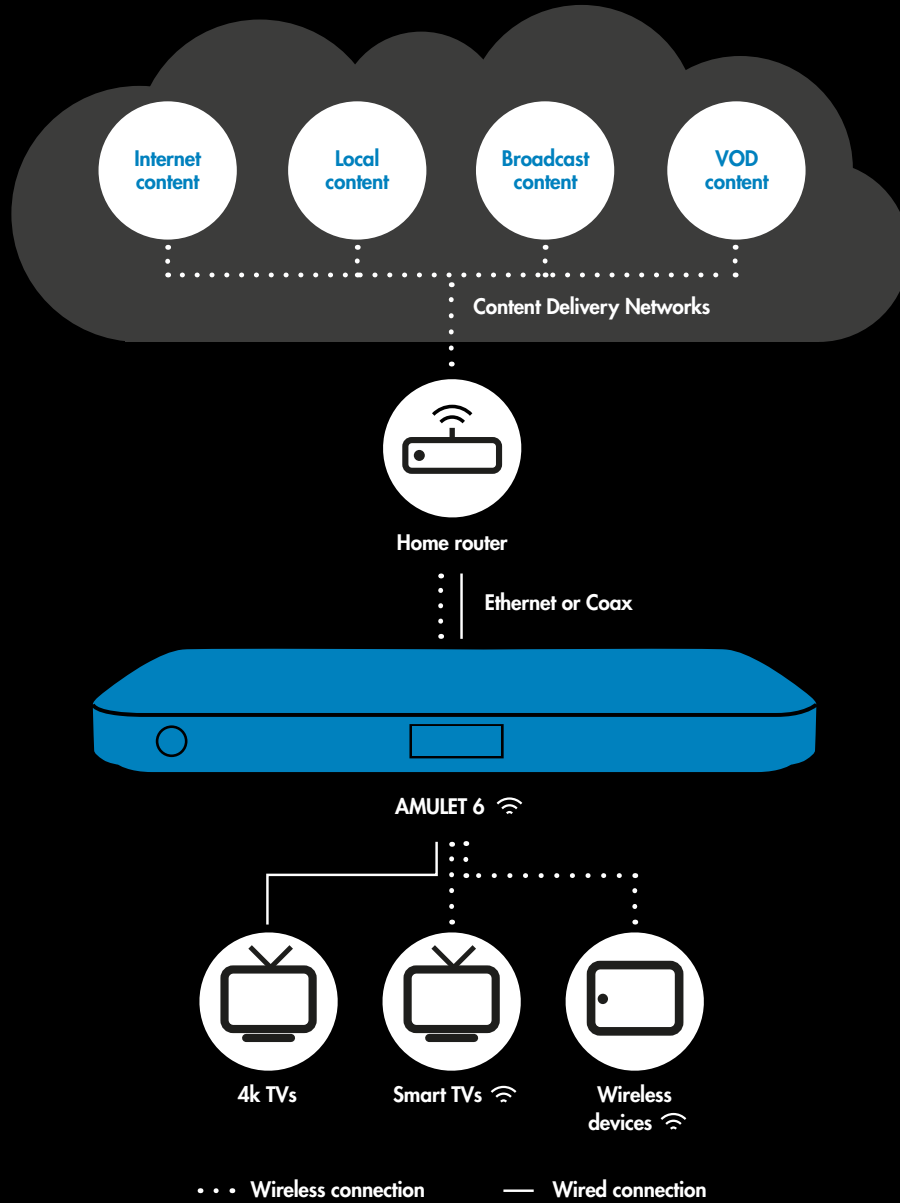
Supports Legacy Televisions

Broaden your addressable homes by supporting the millions of televisions in subscriber homes that do not support HDMI. Amulet 6 supports composite video, as well as analog stereo audio and digital multi-channel audio outputs.



WHOLE HOME VIDEO DISTRIBUTION

Ideal for wireless video distribution, coaxial wired homes, H.264, HEVC networks, 4k video, DVR & WHDVR and BYOD.



SPECIFICATIONS

VIDEO FORMATS

VC-1 Advanced Profile @ Level 3
AVC/H.264 High Profile @ Level 4.2
H.265 High Efficiency Video Coding (HEVC)
Main Profile and Main 10 Profile
MPEG-2 Main Profile @ High Level
MPEG-4 Part 2 Advanced Simple Profile
DivX versions 3.11, 4.1, 5.X, and 6.X
XVID
MPEG-1/H.261/H.263
AVS decode
with support for AVS1-P2 Jizhun Profile @ Level 6.0
MPEG still picture decode
MVC
VP9 (for YouTube)

AUDIO FORMATS

AAC LC, AAC LC+SBR Level 2, AAC HE Level 2,
AAC HE Level 4
AC4
Dolby Digital, Dolby Digital Plus
MPEG I Layer 1, 2
MPEG I Layer 3 (MP3) encode/decode
Windows® Media Audio (WMA)
WMA pro
AAC HE 5.1 decode plus DTS 5.1 encode SPDIF
output
AAC HE 5.1 decode plus AC3 5.1 encode SPDIF
output

VIDEO OUTPUTS

NTSC-M, NTSC-J, PAL-BDGHIN, PAL-M, PAL-Nc,
SECAM analog outputs
480i/480p/576i/576p/720p/1080i/1080p/4K-
2KP60 output formats
Component RGB or YPrPb output
DCS support
Rovi 7.1 support
HDMI 2.0 with 3D format support

SECURITY

AES, 1DES, 3DES, CPRM, CPPM, CSS, and DTC
copy protection algorithms and standards
VB, ARIB, and DC2-compliant transport demux with
1DES, 3DES, DVB, Multi2, and AES descramblers

NETWORKING OPTIONS

Quantenna Wireless 802.11ac (5.4 GHz) 4x4
Wi-Fi
Real-time Digital Transmit Beam Forming (MIMO)
Baseband 4T4R, up to 4 spatial streams
Client-to-client direct connection (TDLS)
Digital beam forming for up to 4.5db gain
Standards: 802.11ac, 802.11a, 802.11h,
802.11n, 802.11e, 802.11i
Wi-Fi Compliant: WMM, WMM-PS, WPA, WPA2,
WPS
Encryption: AES, TKIP, WEP64/128
RF: 4.9GHz – 5.85GHz
Modulations: BPSK, QPSK, 16-QAM, 64-QAM,
256-QAM
FEC: 1/2, 2/3, 3/4, 5/6
Max PHY Rate: 1.7Gbps
MoCA 2.0
Bluetooth/BLE 4.0

FRONT & SIDE PANELS

Illuminated standby indicator (on/standby)
IR receiver
Reset to factory

BACK PANEL

Connectors

Optical digital audio
USB 3.0 Host Type A
IR Extender Port
Mini DIN connector for composite/component video
& stereo audio fan-out cable (included)
HDMI 2.0
RJ-45 10/100/1000 Base-T Ethernet with
integrated status LEDs
DC power

CPU & MEMORY

Broadcom BCM7251S or Broadcom BCM 7438S
(MoCA option)
12K DMIPS, dual-core ARM-v7 CPU
1GB DDR3-1866
256MB Flash

MECHANICAL

280x170x36mm
5-35°C (40-95°F) operating temperature
30-95% relative humidity

ENERGY MANAGEMENT

Power 7W maximum at 90-264VAC, 48-63Hz
ENERGY STAR compliant

TYPE APPROVALS

FCC Part 15, CEA-60065

This document contains information on a product under development. Amino Communications Ltd reserves the right to change or modify this specification or discontinue this product without notice.