Technology advancements continue to drive consumer demand for a more interactive TV viewing experience in stunning, ultra-HD resolution. To the service provider, 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 Kamai 6 series of receivers, 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 Features**
- Optimised for digital video broadcast and streaming media services
- Reduce bandwidth by up to 50% with H.265/HEVC support
- Superior 4K Ultra-HD resolution, 4x greater than 1080p for best viewing experience
- Dual 720p30 transcoding for multi-screen support
- Whole-home HD video distribution with flexible networking options: MoCA, Wi-Fi and BLE
- Support PLTV on Flash
- Energy efficient with DeepSleep™ technology for reducing power consumption up to 99% in standby mode

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Reduce Bandwidth, Reduce Costs
Studies have shown that H.265/HEVC provides up to 50% better compression than H.264 and 35% bandwidth reduction during live encoding. HEVC compression provides significant benefits to your network by:

- Providing an opportunity to distribute 4K Ultra-HD content without sacrificing bandwidth
- Reaching subscribers in the “last mile” that were previously difficult to reach.

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

Bring Your Own Device
Kamai 6 series introduces dual 720p30 transcoding to seamlessly access content to play on other video devices. This reduces costs by allowing subscribers to interact with their TV service on their personally owned devices, such as tablets or smartphones.

No New Wires
By using existing in-home wiring or wireless, Kamai 6 series provides flexible distribution technologies to meet user needs without increasing deployment costs.

Kamai 6 series supports Quanterra’s 802.11ac (5GHz) 4x4 WiFi solution for wireless HD video distribution throughout the home. Reduce installation time, cost and complexity of wiring a home with WiFi. 4x4ac WiFi provides better coverage, superior performance and a high quality of service (QoS) for distributing video within the home. When matched with an accompanying access point, Kamai 6 enables whole-home WiFi transmission speeds over 1.7Gbps for hassle-free installation and easy distribution of HD video throughout the home without wires. Kamai 6 series provides a true videograde WiFi client solution and costeffective architecture to accelerate the adoption of IP based video services.

Kamai 6 also supports MoCA 2.0 to enable multi-room video distribution without new wiring at double the throughput rate of previous generations. MoCA utilizes 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 are more efficient as they spend less time at each home and you increase the number of new installations per day. Additionally, when subscribers move or churn, your investment remains intact in the equipment rather than in the home wiring.

The addition of Bluetooth technology improves wireless connectivity by using lowpower BLE technology to connect a variety of devices such as smartphones and tablets.

Kamai 6 series offers flexible networking technologies to ensure you have the best options to meet your customer’s distribution requirements.

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, Kamai 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.

Ready-to-Deploy IPTV Solution
By supporting all of Amino’s ecosystem partners, including the latest digital rights management developments and conditional access solutions, Kamai 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. Kamai 6 supports composite video, as well as analog stereo audio and digital multichannel audio outputs.
**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-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, NTSC-J, PAL-BDGPHN, PAL-M, PAL-Nc, SECAM analog outputs
- 480i/480p/576i/576p/720p/1080p/1080p/4K-2K/4K@30 output formats
- Component RGB or YPrPb output
- DCS support
- Rovi 7.1 support
- HDMI 2.0 with 3D format support

**SECURITY**
- AES, 1DES, 3DES, CPPM, CPPM, CSS, and DTCP copy protection algorithms and standards
- V8, A13B, and DC2 compliant transport demux with 1DES, 3DES, DVB, Multi2, and AES descramblers

**SPECIFICATIONS**

**NETWORKING OPTIONS**
- Quantenna Wireless 802.11ac (5.4 GHz) 4x4 Wi-Fi
- Real-time Digital Transmit Beam Forming (WMM)
- Baseband ATIR, up to 4 spatial streams
- Client-to-client direct connection (TDL)
- Digital beam forming for up to 5.5db gain
  - Standards: 802.11ac, 802.11a, 802.11n, 802.11i
  - 802.11n, 802.11e, 802.11i
  - Wi-Fi Compliant: WMM, WMMP, WPA, WPA2, WPS
  - Encryption: AES, TKIP, WEP, WEP64/128
  - RF: 4.9GHz – 5.8GHz
  - 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

**ENERGY MANAGEMENT**
- Power 7W maximum at 90-264VAC, 48-63Hz
- Compliant with European Union’s Energy using products directive for standby regulation

**TYPE APPROVALS**
- FCC Part 15, CEA-60065

**FRONT & SIDE PANELS**
- Illuminated standby indicator (on/standby)
- IR receiver
- Reset to factory

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

**CPU & MEMORY**
- Broadcom BCM7251S
- 12K DMIPS, dual-core ARMv7 CPU
- 1GB DDR3-1866
- 8GB eMMC Flash

**MECHANICAL**
- 220w x 170d x 36h mm
- 5-35°C (40-95°F) operating temperature
- 30-95% relative humidity

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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.