



amino 

# KAMAI 7B

POWERFUL 4K UHD CLIENT TV DEVICE,  
INCORPORATING ADVANCED WIFI 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 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 7B series of TV devices, operators are able to provide next generation 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
- Whole-home HD video distribution through integrated Broadcom 4x4ac Wi-Fi
- Optional support for PLTV on flash
- Energy efficient with DeepSleep™ technology for reducing power consumption up to 99% in standby mode

  
advanced media technologies®



## 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.

## No New Wires

By using existing in-home wiring or wireless, Kamai 7B series provides flexible distribution technologies to meet user needs without increasing deployment costs.

Kamai 7B series optionally supports Broadcom’s 802.11ac (5GHz) 4x4 Wi-Fi solution for wireless HD video distribution throughout the home. Reduce installation time, cost and complexity of wiring a home with Wi-Fi. 4x4ac Wi-Fi 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 7B enables whole-home Wi-Fi transmission speeds over 1.7Gbps for hassle-free installation and easy distribution of HD video throughout the home without wires. Kamai 7B series provides a true video-grade Wi-Fi client solution and cost-effective architecture to accelerate the adoption of IP-based video services.

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 or RF4CE technology improves wireless connectivity to allow for out of sight placement of the Kamai 7B.

Kamai 7B 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 7B 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 7B 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 7B supports composite video, as well as analog stereo audio and digital multichannel audio outputs.



# SPECIFICATIONS

<b>VIDEO FORMATS</b>	<p>Standard Supported Formats:</p> <p>VC/H.264 High Profile @ Level 4.2 HEVC/H.265 MPEG-1/H.261/H.263 MPEG-2 Main Profile @ High Level VP9 (for YouTube)</p> <p>Optional Supported Formats:</p> <p>MPEG-4 Part 2 Advanced Simple Profile VC-1 Advanced Profile @ Level 3 MPEG still picture decode</p>
<b>AUDIO FORMATS</b>	<p>Standard Supported Formats:</p> <p>Dolby Digital Consumer Audio (Dolby Digital), output is 2 channel decode and digital pass-through Dolby Digital Consumer Plus Audio (Dolby Digital Plus), output is 2 channel decode and digital pass-through MPEG I Layer 1, 2 LC-ACC &amp; HE-AAC</p> <p>Optional Supported Formats:</p> <p>Windows® Media Audio (WMA) MPEG I Layer 3 (MP3)</p>
<b>VIDEO OUTPUTS</b>	<p>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</p>
<b>SECURITY</b>	<p>AES, 1DES, 3DES, CPRM, CPPM, CSS, and DTCP copy protection algorithms and standards VB, ARIB, and DC2-compliant transport demux with 1DES, 3DES, DVB, Multi2, and AES descramblers</p>

<b>NETWORKING OPTIONS</b>	<p>Integrated Broadcom 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 Bluetooth/BLE 4.0 RF4CE</p>
<b>ENERGY MANAGEMENT</b>	<p>Power 7W maximum at 90-264VAC, 48-63Hz Compliant with European Union's Energy using products directive for standby regulation</p>
<b>TYPE APPROVALS</b>	<p>FCC Part 15, CEA-60065</p>
<b>FRONT &amp; SIDE PANELS</b>	<p>Illuminated standby indicator (on/standby) IR receiver Standby Button Wi-Fi Strength Indicator</p>
<b>BACK PANEL</b>	<p>Connectors</p> <p>Optical digital audio 3.5mm jack for CVBS +L/R Audio HDMI 2.0 USB 3.0 Host Type A Reset to factory RJ-45 10/100/1000 Base-T Ethernet with integrated status LEDs WPS Button DC power</p>

<b>CPU &amp; MEMORY</b>	<p>14K DMIPS, quad-core ARM-v7 CPU 1GB or 2GB RAM options 256MB, 8GB EMMC or 16GB Flash Options</p>
<b>MECHANICAL</b>	<p>5-35°C (40-95°F) operating temperature 30-95% relative humidity</p>

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.