



VIEWCD
Client Devices

KAMAI 7

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 7 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

AMT
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 7 series provides flexible distribution technologies to meet user needs without increasing deployment costs.

Kamai 7 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 7 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 7 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 7.

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



SPECIFICATIONS

VIDEO FORMATS

Standard Supported Formats:

AVC/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)

Optional Supported Formats:

MPEG-4 Part 2 Advanced Simple Profile
VC-1 Advanced Profile @ Level 3
MPEG still picture decode

AUDIO FORMATS

Standard Supported Formats:

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 & HE-AAC

Optional Supported Formats:

Windows® Media Audio (WMA)
MPEG I Layer 3 (MP3)

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

NETWORKING OPTIONS

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

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
Standby Button
Wi-Fi Strength Indicator

BACK PANEL

Connectors

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

CPU & MEMORY

Broadcom 7271
14K DMIPS, quad-core ARM-v7 CPU
1 GB LPDDR4-3200 (Optional 2GB)
256MB, 8GB EMMC or 16GB EMMC Flash Options

MECHANICAL

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

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.