



amino 

# KAMAI 7X

HIGH PERFORMANCE, 4K UHD TV DEVICE,  
WITH TUNER OPTIONS, OPTIMISED FOR  
COST EFFECTIVELY DELIVERING  
IPTV/OTT SERVICES.



With the Kamai 7X series of TV devices, operators are able to provide next generation services in the highest possible resolutions while reaping the cost benefits of reduced bandwidth and installation times.

### Deliver Hybrid TV Services Anywhere, Anytime

By providing an optional tuner that supports a wide range of broadcast standards, including QAM/ATSC, DVB-C, DVB-T/T2 and DTMB. Kamai 7X enables you to quickly deploy a Hybrid TV service within your market reach, while also allowing you to expand outside your service footprint.

With a high performance SoC delivering 7000 DMIPS – and up to 2GB of memory – the Kamai 7X offers:

### Key Benefits

- Distribute 4K Ultra-HD content without sacrificing bandwidth
- Reduce bandwidth by up to 50% with HEVC support
- Self-configuring Ethernet port and optional Wi-Fi connectivity for easy integration with existing in-home networks and broadband services

- Energy efficient with DeepSleep™ technology for reducing power consumption up to 99% in standby mode
- Option for internal Bluetooth LE or RF4CE for great remote control flexibility



## Reduce Bandwidth, Reduce Costs

Studies have shown that H.265/HEVC provides up to 50% better compression than H.264/AVC and 35% bandwidth reduction during live encoding. HEVC compression provides significant benefits to your network by reaching subscribers in the “last mile” that were previously difficult to reach. As a result, you can reduce bandwidth and transport costs, while delivering much higher quality content over Content Delivery Networks (CDN) or streaming content to lower bitrate connections.

## IP Connectivity

Kamai 7X series provides flexible networking options to simplify installation and enable consumer self-install. Kamai 7X is equipped with a self-configuring 10/100 Ethernet port that is compatible with industry standard routers, cable and xDSL modems, and FTTH ONUs. Reduce installation time, cost and complexity of wiring a home with 802.11ac (2.4 GHz/5 GHz) Wi-Fi networking option.

Kamai 7X provides auto-provisioning tools such as BOOTP, DHCP and TR-069 Automatic Configuration Server to make deployment and management faster and more efficient.

## Cloud-based Applications for a Connected Home Experience

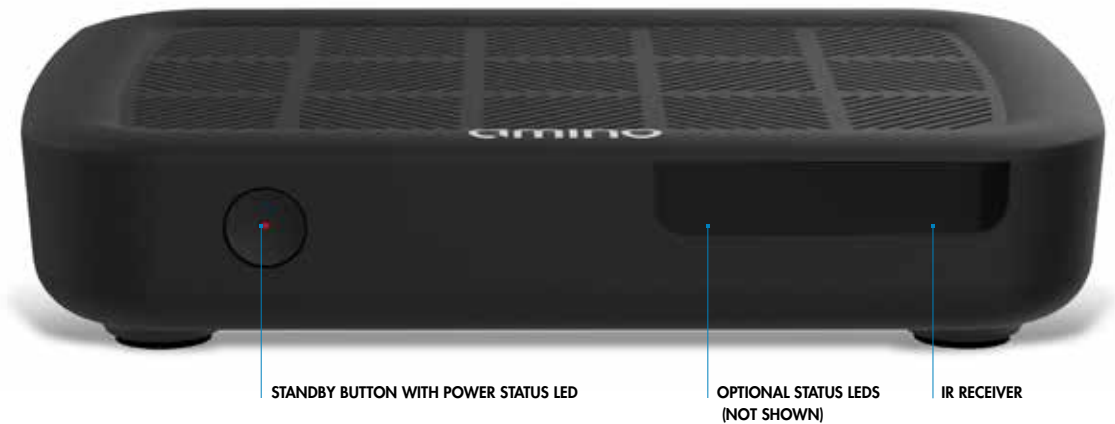
Meet subscriber’s demand by offering the most advanced online services and applications. Based on Broadcom’s latest chipset, Kamai 7X series is compatible with the technical requirements of streaming video services like Netflix, VUDU, and YouTube\*.

## Ready-to-Deploy Hybrid TV Solution

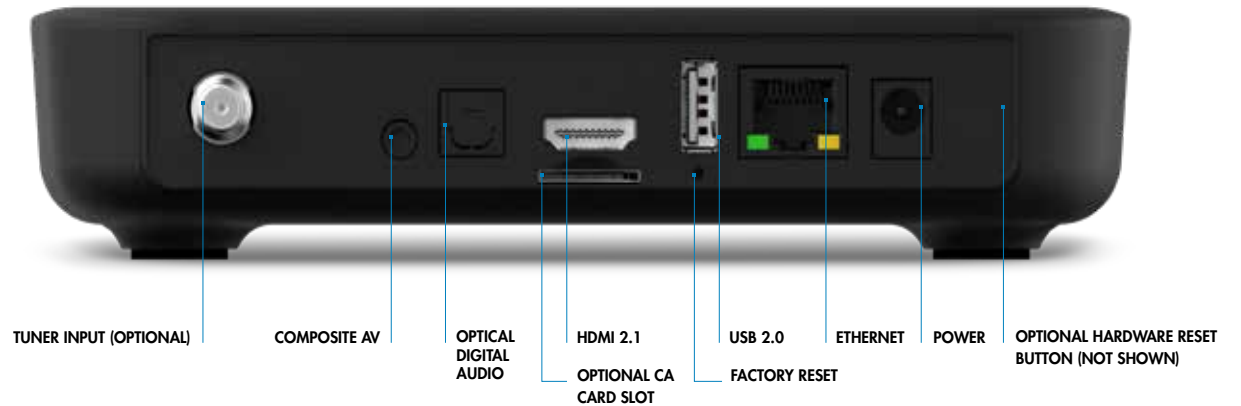
By supporting all of Amino’s ecosystem partners, including the latest digital rights management developments and conditional access solutions, Kamai 7X enables you to quickly deploy a video service that also provides advanced cloud-based features for hybrid IPTV and over-the-top (OTT) streaming applications.

## Supports Legacy Televisions

Broaden your addressable homes by supporting the millions of televisions in subscriber homes that do not support HDMI 2.1. Kamai 7X supports composite video, as well as analogue stereo audio and digital multi-channel audio outputs.



Software switchable DVB-C/T/T2 tuner configuration shown



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

# SPECIFICATIONS

<p><b>VIDEO FORMATS</b></p> <p>Standard Supported Formats:</p> <p>AVC/H.264 High Profile @ Level 4.2 HEVC/H.265 MPEG-1/H.261/H.263 MPEG-2 Main Profile @ High Level VP9</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>		<p><b>SECURITY</b></p> <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>	<p><b>CPU &amp; MEMORY OPTIONS</b></p> <p>7K DMIPS, dual-core ARM-v8 CPU 1GB or 2GB DRAM 512MB NAND or 8GB eMMC Options</p>
<p><b>AUDIO FORMATS</b></p> <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>		<p><b>TUNER</b></p> <p>Optional QAM/ATSC, DVB-C/T/T2 software switchable, QUAD DVB-C/QAM or DTMB with loop-through</p>	<p><b>MECHANICAL</b></p> <p>172mm x 117mm x 35.5mm (excluding the tuner F-connector ~10mm) 5-40°C (40-104°F) operating temperature 30-95% relative humidity</p>
<p><b>VIDEO OUTPUTS</b></p> <p>NTSC-M, NTSC-J, PAL-BDGHIN, PAL-M, PAL-Nc, SECAM analogue outputs 480i/480p/576i/576p/720p/1080i/1080p/4K-2KP60 output formats DCS support Rovi 7.1 support HDMI 2.1 with HDCP2.2 Composite video output</p>		<p><b>NETWORKING AND CONNECTIVITY</b></p> <p>Optional internal 802.11ac (2.4 GHz/5 GHz) 2x2 Wi-Fi Optional internal 802.11ac (2.4 GHz/5 GHz) 3x3 Wi-Fi 10/100 Base-T Ethernet Optional Bluetooth LE or RF4CE receivers</p>	<p><b>ENERGY MANAGEMENT</b></p> <p>Power 7W maximum at 90-264VAC, 48-63Hz &lt; 0.5W in S3 standby ENERGY STAR compliant</p>
		<p><b>FRONT PANEL</b></p> <p>Standby button with status LED Optional status LEDs (network and PVR) IR receiver</p>	<p><b>TYPE APPROVALS</b></p> <p>FCC Part 15, CEA-60065</p>
		<p><b>BACK PANEL</b></p> <p>Optical digital audio Optional CA card slot RF input (only if tuner option selected) RF loop-through/output with DTMB tuner option HDMI 2.1 RJ-45 10/100 Base-T Ethernet with integrated status LEDs 3.5mm jack for composite AV output (video, audio L&amp;R) DC power Optional hardware reset button USB 2.0 Host Type A Factory reset button</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.