



amino 

# ARIA 7X

HIGH PERFORMANCE, HEVC HD TV  
DEVICE, OPTIMISED FOR COST-EFFECTIVELY  
DELIVERING IPTV/OTT SERVICES.



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

### Deliver IPTV or OTT TV Services Anywhere, Anytime

The Aria 7X is a cost-optimised product solution that enables you to quickly deploy an IPTV or OTT service to your customers via a managed network or the open Internet.

### Key Features

With a high performance SoC delivering 7000 DMIPS, the Aria 7X offers:

- Optimized for digital video broadcast and streaming media services
- 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

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### 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

Aria 7X series provides flexible networking options to simplify installation and enable consumer self-install. Aria 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 Aria 7X’s optional 802.11n (2.4 GHz) networking option.

Aria 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, Aria 7X’s series supports 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, Aria 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. Aria 7X supports composite video, as well as analog stereo audio.



POWER LED IR IR RECEIVER



AV OUT HDMI ETHERNET USB 2.0 POWER RESET

# 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

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 (upscaling only, not decode) output formats  
Composite video output (CVBS)  
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

Optional internal 802.11n (2.4 GHz) 2x2 Wi-Fi  
10/100 Base-T Ethernet

## FRONT & SIDE PANELS

Illuminated standby indicator (on/standby)  
IR receiver

## BACK PANEL

### Connectors

HDMI 2.0  
USB 2.0 Host Type A  
RJ-45 10/100 Base-T Ethernet with integrated status LEDs  
3.5mm mini-jack for analogue AV output  
DC power  
Factory reset button

## CPU & MEMORY

7K DMIPS, dual-core ARM-v8 CPU  
1GB DRAM  
256MB NAND Flash

## MECHANICAL

110w x 110d x 31h mm  
5-40C (40-104F) operating temperature  
30-95% relative humidity

## ENERGY MANAGEMENT

Power 6W maximum at 90-264VAC, 48-63Hz  
ENERGY STAR compliant

## TYPE APPROVALS

FCC Part 15, CEA-60065



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