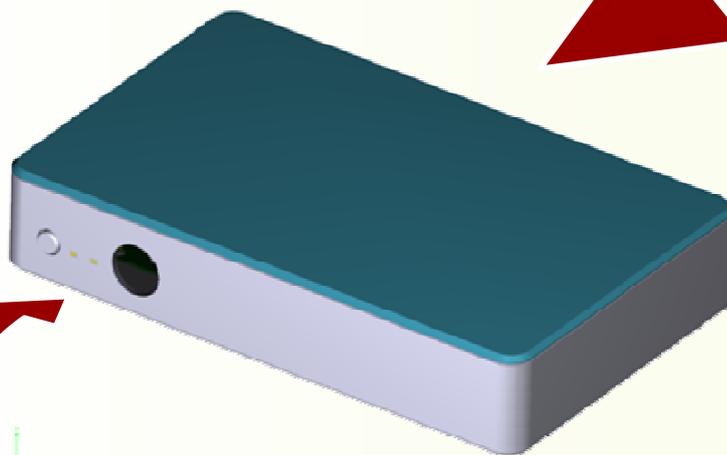# Aurora TV Box

futarque







## HIGHLIGHTS

- DVB-S/S2, DVB-T/T2, DVB-C/C2, ISDB-T and ATSC

- SAT>IP Client and Server

- Digital Video Recorder (DVR)

- DLNA Server, Player & Renderer

- OTA software update

- Software update through USB or network

- Secure boot and processor

- TeleText

- DVB Subtitling

- CI+

- Extensive language support

- HDMI Security

- HDMI CEC

- Android OS framework





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## Mediarite

Mediarite is Futarque's digital TV software and media player, which has its roots in almost two decades of experience in the DTV broadcast industry. By exploiting the similarities between broadcast TV, IP streaming, VoD and local media playback, Mediarite has evolved into a complete hybrid solution for all of these possibilities.

## Broadcast

Mediarite was built for DVB, has been extended to ATSC, ISDB-T, and owing to its modular nature, it can be expanded to support any standard. If you missed a show, you will value the integrated PVR functionality, allowing easy time shifting or timed recordings of single events or series. EPG, multiple audio languages, subtitles, TeleText, regional variations - you name it, we support it.

## Video on Demand

Mediarite supports streaming IP services in both broadcast and on-demand mode. High value content may be protected using Microsoft WMDRM or PlayReady DRM as signalled by CENC (ISO 23001-7) or PIFF standards. Mediarite also supports Adaptive Bitrate using Apple Http Live Streaming (HLS), Microsoft SmoothStreaming and MPEG DASH (ISO/IEC 23009-1).

## Security

Protecting assets is paramount to any serious media player or broadcast client software. For digital TV, Mediarite natively supports embedded conditional access systems and the latest version of CI+. For other types of media, Mediarite supports Microsoft WMDRM and PlayReady DRM. The final piece of the puzzle is protecting the secrets of DRM systems, which is accomplished in different ways, depending on the system hardware.

## Interactive TV

SmartTV is all the craze these days, and no software offering would be complete without support for interactive standards. For broadcast, Mediarite has solid, certified support for the latest MHEG standard. For IPTV, the standard to measure against is OIPF. HbbTV, which builds on both OIPF and MHEG, is dominant in Europe for hybrid broadcast/broad-band delivery.

## Connectivity

Consumers often desire to share content between devices in a local network. Mediarite supports this by using the UPnP and DLNA standards. Apart from downloaded media, broadcast TV can also be sent on local network to supported player clients. An example of such a client is Futarque's reference iOS and Android application, which can share live TV and recordings to a phone or tablet. Additionally, it can also be used to remote control the host TV/STB, view EPG information, schedule recordings, etc.

## Android TV Integration

With Android L, Google added the TvInput framework to Android, which introduces support for broadcast TV inputs in a standardized fashion. This means that applications can access e.g. channel list and EPG via standard APIs. Futarque was excited to see this improvement to Android and has integrated its DTV software stack to the standard interfaces. Where functionality did not exist in the standard interfaces, Futarque has provided extensions - e.g. for timers and DVR recordings. If similar functionality should be introduced in later Android versions, Futarque will, of course, implement support as required.

## Reference TV UI

Futarque has developed a reference UI for live TV, that uses both the standard APIs and Futarque's extensions. In this way it is possible to build a complete TV product with all expected features. Customers are free to use the reference UI as is, or modify its look and feel. The standard Android TV UI also works on its own, but without access to the advanced features supported by Futarque's extensions.