



- **Conveniently** pause, rewind and resume live TV
- **Intelligently** buffers video for up to an hour^[1]
- **Durability** is optimised for write-intensive, pause live TV applications
- **Flexibly** set for 'pause on demand' or 'continuous buffering'

AMINO TIMESHIFT

IT'S THE LITTLE THINGS THAT MATTER.

The tiny Amino Timeshift flash drive plugs neatly into the USB port on the Amino set-top box and ensures that your customers will never miss a minute of their favourite TV.

Viewers can now benefit from pausing live content with a simple plug-and-play USB flash drive delivered either with the STB or as a field upgrade.

Pause Live TV

For years personal video recorders (PVRs) with integrated hard disk drives (HDDs) have enabled TV viewers to pause and resume live TV and fast forward and rewind recorded content - research suggests that this is one of the most-used PVR features.

Amino now provides a pause live TV solution for its range of non-PVR STBs including the Aminet A140. The Amino Timeshift pause live TV feature combines a video-grade USB flash drive with the latest Aminet software. This feature is attractive to IPTV and OTT operators who wish to offer cost effective PVR-type services to their customers.

Robust solution for video applications

Pause live TV requires a high endurance flash drive solution, reasonable capacity, good lifetime and a high performance to support HD video data rates and file sizes.

Standard off-the-shelf retail flash drives wear out very quickly when written with the high bit-rate video streams and

consequently are not suitable for pause live TV applications.

Industrial grade flash drives provide extended lifetime and read/write performance but come with a high price tag and are not commercially viable for the consumer market.

Amino TimeShift Pause Live TV flash drive

The new USB flash drive used in Amino's Timeshift solution has been designed in partnership with one of the world's leading memory suppliers and is hardware and software optimised for consumer video recording applications.

Product Lifetime

Amino is able to advise on your required pause live TV use case (based on required length of record buffer, video data rates in your network, expected length of time in pause mode) in order to maximise the performance and lifetime characteristics of the flash drive - please contact your sales representative for further information.^[2]

Extremely small size

At less than 20mm long and 7mm thick the Amino TimeShift USB flash drive is extremely small and simply and unobtrusively plugs into the USB connector on the rear of the STB.

Integrated with Aminet software

Both HTML and native middleware are able to take advantage of this feature through the provision of APIs to control the recording, playback and trick-play features. **Please check that the feature is supported by your middleware vendor prior to deployment.**



- [1] Please note that the pause buffer duration varies according to the actual stream bitrate and/or the configured buffer duration spooltime - whichever limit is hit first.
- [2] The expected lifetime of the memory module is determined by a number of network variables that are beyond the control of Amino. As such, Amino is only able to provide guidance on anticipated product lifetime on request, and the information provided will not form any aspect of a warranty. Amino may update this guidance from time to time.

SPECIFICATION

- **Size** 14mm (W) x 18.5mm (L) x 7mm (H)
- **Regulatory Compliance** FCC, CE, C-tick, VCCI
- **Power Supply** USB-bus powered
- **Interface** USB specification 2.0 High Speed Module, Mass Storage Class
- **Temperature** Operating: 10 °C to 40 °C
Storage: -25 °C to 70 °C
- **Humidity** Operating: non-condensing: 5% to 90% RH (10 °C to 45 °C)
Storage: non-condensing: 95% RH@ 60 °C
- **Drop** Minimum 1.0 m free fall onto vinyl floor for USB and SD
- **Size** 8 GB



POWERED BY **aminet**
INDUSTRY LEADING SOFTWARE

About Amino Communications

Amino Communications is a leading global IPTV and OTT digital TV innovator, enabling major network operators and service providers to connect their customers to the entertainment experiences they love. Amino combines iconic products, industry-leading software, deep specialist IP technology expertise and partnerships with the foremost ecosystem partners to deliver award-winning solutions to over 850 customers in 85 countries. Founded in 1997 and headquartered in Cambridge, Amino has offices in the US and China, and is listed on the London Stock Exchange Alternative Investment Market (AIM symbol: AMO).

About Aminet

Aminet is Amino's core software solution and is at the heart of every product we make – from the award-winning A110 to the latest next generation IPTV devices. Trusted by network operators to enable leading edge entertainment experiences, the Aminet solution has built a reputation for ultra-reliability, robustness and flexibility delivering thousands of deployments across a wide range of network conditions and ecosystems worldwide. With over five million Aminet-driven set-top boxes deployed, Amino continues to innovate – adding exciting new OTT features to provide an even richer and more compelling entertainment experience.

Amino, AssetHouse, Mood and the Amino Logo are trademarks of Amino Communications Limited. All other trademarks are the property of their respective owners. © Amino Communications Ltd 2013. May 2014.