

# AmiNET130MH

100% DIGITAL, HD, AVC, IPTV

Set-Top Box with Security Housing

amino



## 100% Digital

The AmiNET130MH is The First 100% Digital IPTV Set-Top Box (STB), and builds upon Amino's established reputation for innovation and leadership. A disruptive High Definition (HD) MPEG-4 IPTV STB with IP-only in and HDMI-only out, the AmiNET130MH targets service operators whose primary proposition is HD.

## High Definition (HD)

The support of HD video at 720p and 1080i offers an exciting and dramatic viewing experience, with greater realism and detail especially in large display formats. Additionally, the HD graphics capabilities provide greater clarity and sharpness to support enhanced user interface features such as more EPG data, banner advertising and information services.

## Return on Investment

Removing the redundant analog A/V connections reduces the cost of the AmiNET130MH, thereby minimizing Service Provider capital expenditure and reducing the time to see a return on investment.

## Advanced Video Codec

The support of low bit-rate advanced video codecs allows operators to optimise the use of network bandwidth and increase the number of revenue generating services:

- Reach a greater number of subscribers
- Reduce network load
- Increase the number of available interactive and multicast channels
- Enable HD over lower bandwidth networks

## Unique

Not only is the AmiNET130MH The First 100% Digital IPTV STB, it is the smallest HD MPEG-4 unit and is based on the awardwinning Amino design, all of which allow the service operator to differentiate themselves in the market.

## Supported Middlewares

Amino STB products are supported by leading IPTV middleware providers for integration as part of a broadband TV solution. The AmiNET130MH also supports development of applications in HTML and Javascript.

Advance Information: This document contains the specification for a product under continuous development. Specifications may change in any manner without notice

## Main Features

- MPEG-4 AVC/H.264 up to HP@L4, resolutions up to 720p and 1080i
- MPEG-2 up to MP@HL, resolutions up to 720p and 1080i
- HD Graphics (1280x720)
- Digital HD output via HDMI with HDCP
- Stereo Audio and Dolby 5.1 surround via Optical S/P-DIF and HDMI
- High performance integrated silicon architecture, 300 MIPS, with dedicated codec support
- Compact size
- Picture in graphics support with scaling, positioning and Alpha Blending
- Teletext pass through, closed captioning, subtitling
- 4:3 and 16:9 video stream aspect ratios
- 50Hz PAL and 60Hz NTSC TV Output
- 16:9 video stream on a 4:3 TV with cropping/letterbox
- 192 Mbytes SDRAM as standard
- Interface to 10/100BaseT Ethernet
- USB 2.0 Peripheral Port
- IR Remote Control for TV and set-top functions
- Protocols
- VoD (RTSP video session control)
- Multicast (IGMP)
- Key-protected, scalable multicast software uploading of Flash memory based software
- HTML 4 Browser with JavaScript
- Optional IR keyboard
- Security Enclosure included

## Content Security

The AmiNET130MH is compatible with a wide range of leading smartcard-less content protection and rights management solutions.

## Supported browsers

For Internet access and middleware compatibility, the AmiNET130MH supports Fresco, Galio and Opera web browsers including ANT and Opera.

## Application Development

Amino software technology is based on open standards such as Linux and HTML. Application developers for the AmiNET130MH benefit from the Amino JMACX system which enables full control of the STB functions from the browser. JMACX provides the service operator with a powerful set of HTML and JavaScript extensions which allow simple and highly effective user interface designs to be created or ported.

For increased flexibility in creating custom applications ADKs and SDKs are also available.

## Software Update and Maintenance

The AmiNET130MH holds a complete software image in on-board flash memory, and is also designed to support secure bootstrap from a multicast server. At any time, a deployed AmiNET130MH can be upgraded with a new software image via the secure multicast server. The multicast approach ensures that very large numbers of deployed set-top boxes can be upgraded without placing an individual load on the server or the network. For security, software images can be signed with keys unique to each deployment.

## Installation

The AmiNET130MH is supplied with an in-line power supply, a country-specific power cord and an HDMI video cable. An external ADSL or other modem is required for connection to the broadband network. It is compatible with a wide range of home networking options in order to enable multi room IPTV. Installer configuration is on-screen via internal HTML pages.

## Detailed Specification

Outputs	HDMI, Optical S/P-DIF, HD, USB 2.0 Master
Inputs	Power, Input Ethernet 10/100 Base T
Graphics Resolution	640x576 (minimum) and HD 1280x720
Codecs	MPEG-2 MP@HL MPEG-4 AVC/H.264 HP@L4
Power	5V, 1500mA
Operating Environment	ETS 300-019-1-3 Class 3.1
EMC Conformance	EN55022. FCC Part15
Operating Environment	Safety certification to IEC 60065:2001, CAN/CSA-C22.2 No.60065-03 and UL 6500
Safety Approvals	Safety certification to EN60950, and ELSVD.CE, CB and CSA safety approval

## Accessories

Multi-function IR Remote	Standard
IR Keyboard	Optional
Plug-top Power Supply with Regional Power Cord	Standard
HDMI Cable	Standard
Anti-slip Base-plate	Standard
User Guide	Standard

## Developer Kits

Comprehensive access to APIs and toolchains, with associated documentation and support, is available under a separate license agreement.

## Multicast Loader

The Amino secure multicast server software ensures that any DHCP-configured Amino set-top (such as the AmiNET130MH) connecting to the network may be rapidly and securely loaded with the latest signed software image authorised by the service provider. The multicast loader is installed on a Linux PC at the head-end and transmits the software image in a continuous carousel, ensuring rapid start-up regardless of the number of set-top boxes in the system and making the solution completely scalable.