



AmiNET110

MPEG-2 Ethernet Set-Top Box

The AmiNET110 is a compact and elegant MPEG-2 Set-Top Box for IPTV and video on demand applications.

With an Ethernet input and flexible audio/video output, together with S/P-DIF and an RF Modulator output, the STB provides an elegant and powerful means of delivering sophisticated interactive digital television including multicast and on-demand video along with Internet access.

Surround Sound Audio

The AmiNET110 comes complete with digital audio outputs for an exciting home theatre experience.

Compact and Elegant

Supplied in a compact, elegant enclosure, based on the award-winning AmiNET100 design.

Home Networking

The ReadyLinks SmartFoot™ and Coaxsys TVnet/AC adapters (sold separately) are custom accessories which are directly compatible with the AmiNET110 and allow consumers to receive individual IPTV services on multiple televisions around the house. An end user can view a movie in the living room while another family member watches a different channel in their bedroom, all via existing cabling.

Games Support

Games provide an excellent opportunity for service providers to introduce a new revenue generating service. The G-Cluster games client is ported to the AmiNET110 and provides the user with state of the art, centrally served PC games. A USB interface is provided which can support games controllers and peripheral expansion.

Supported Middlewares

Amino set-top box products are supported by leading IPTV Middleware providers for integration as part of a broadband TV solution. The AmiNET110 also supports development of applications in HTML and Javascript.

Content Security

AmiNET110 is compatible with a wide range of leading smartcard-based and smartcard-less content protection & rights management solutions, allowing customers to choose the appropriate security to meet their needs.



Main Features

- Compact, elegant, award-winning design
- Silent operation - no forced air cooling
- Supported by leading Middleware and Conditional Access vendors
- Flexible audio and video output via cable options
 - Composite, RGB, S-Video, Stereo Audio
 - PAL and NTSC
 - 4:3 and 16:9 formats
 - Digital Audio via S/P-DIF
 - RF Modulator output with loop-through
- Teletext / closed caption decoding and subtitling
- USB 1.1
- IR Remote Control
 - Combines STB and TV command functions
- Interface to 10/100BaseT Ethernet
- MPEG1 & 2 MP@ML at up to 10 Mbps
- 24-bit colour graphics with alpha-blending and picture in graphics
- Video Protocols
 - Multicast IPTV (IGMP control)
 - Video on Demand (RTSP control)
- Key-protected, scalable multicast software booting option
- Remote Management and Software upgrade via network
- Macrovision Copy Protection

Optional Features

- IR Keyboard
- Networked Gaming via G-Cluster
- Macromedia Flash support
- Smartcard based or smartcard-less Conditional Access
- Input Method Engines (IME)

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

Supported Browsers

The AmiNET110 supports a selection of HTML browsers including ANT Fresco (provided as standard), Opera and Espial Escape.

Application Development

Amino software technology is based on open standards such as Linux and Java. Application developers for the AmiNET110 benefit from JavaScript or Java APIs, which provide full control of the STB functions.

Microwindows is provided to support graphics based applications, such as the Browser. This includes the Amino **JMACX** system, which provides the service operator with a powerful set of HTML and JavaScript extensions. The **JMACX** extensions allow simple, and highly effective user interface designs to be created or ported.

Software Update and Maintenance

The AmiNET110 may hold its software in Flash Memory, which can be minimal for network booting, or increased to hold the full software image. Software updates can be completed securely in the field using Amino Multicast server software.

Installation

The AmiNET110 connects to the television using a variety of different cables from the STB MiniDIN connector to Composite, Component, S-Video or SCART. Installer configuration is on-screen via internal HTML pages.

Support Products

Application Developer Kit

Complete documentation and support for the various APIs, available under a separate license agreement.

Multicast Loader

The Amino multicast server software ensures that any DHCP-configured Amino set-top (such as the AmiNET110) 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-tops in the system. It is therefore completely scalable.

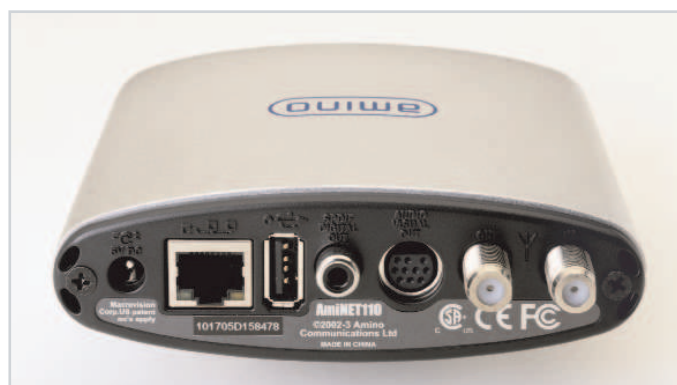
Detailed Specification

Outputs	Composite, Component, RGB, S-Video RF Modulator with loop-through Stereo & Digital Audio S/P-DIF Electrical Standard definition PAL or NTSC USB 1.1 Master
Graphics Resolution	640x438 (525-line) or 640x512 (625-line), 16 bit RGB colour, 8-bit Alpha blending
Codecs	MPEG1 & MPEG2 MP@ML, up to 10Mbps
Smart Card Interface	ISO-7816
Size	114 x 100 x 35 mm
Construction	One-piece Aluminium Extrusion
Power	5V, 700mA
Operating Environment	ETS 300-019-1-3 Class 3.1
EMC Conformance	EN55022. FCC Part 15
Safety Approvals	Safety certification to EN60950, and ELSV. CE, CB and CSA Safety approval

Accessories

Multi-function IR Remote*	Standard
IR Keyboard	Optional
Plug-top Power Supply*	Standard
SCART Cable*	Optional
S-Video + Composite Cable* (CVBS)	Optional
RGB Cable*	Optional
Component Video Cable* (YpbPr)	Optional
Anti-slip Base-Plate	Standard
User Guide	Standard

* Regional Options: USA, Europe, UK, Japan



Rear View