



AmiNET120

MPEG-2, High Definition, Set-Top Box

The AmiNET120 is a compact MPEG-2 Set-Top Box for IPTV and video on demand applications, which is capable of driving High Definition (HD) displays.

With an Ethernet input and highly flexible audio and video outputs, the AmiNET120 provides an elegant and powerful means of delivering sophisticated interactive digital television including multicast, on demand video and Internet access.

Enhanced Video Quality

High definition video offers an exciting and dramatic viewing experience, with greater realism and detail - especially in large display formats. If network bandwidth permits, high definition services can exploit the ability of the AmiNET120 to support HD compatible displays at 720p and 1080i resolution.

Surround Sound Audio

The AmiNET120 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.

Supported Middlewares

Amino set-top box products are supported by leading IPTV Middleware providers for integration as part of a broadband TV solution. The AmiNET120 also supports development of applications in HTML and Javascript.

Content Security

AmiNET120 is compatible with a wide range of leading smartcard-less content protection & rights management solutions.

Supported Browsers

For internet access, and middleware compatibility, the AmiNET120 is capable of supporting a variety of C based browsers including ANT Fresco (standard).



Main Features

- MPEG-2 MP@HL
- Analogue High Definition output: 720p, 1080i
- Flexible audio and video output
 - Composite, Component (YPbPr), S-Video, Analogue HD
 - Stereo Audio
 - Dolby 5.1 surround
 - Teletext pass through, closed captioning, subtitling
 - RF Modulator
 - 4:3 and 16:9 video stream aspect ratios
 - NTSC TV Output with Macrovision protection option
 - 16:9 video stream on a 4:3 TV with on board video scaler reformats video to correct aspect ratio
- Interface to 10/100BaseT Ethernet
- 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
- Application Programming
 - HTML 4 Browser
 - JavaScript
- Optional feature
 - IR keyboard

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

Application Development

Amino software technology is based on Linux and uses JavaScript to provide developers with full control of the AmiNET120 STB functions.

The Amino **JMACX** system, provides the developer with a powerful set of HTML and JavaScript extensions which allow simple, and highly effective user interface designs to be created or ported.

Software Update and Maintenance

The AmiNET120 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 AmiNET120 is supplied with a country-specific plug-top power supply and a choice of video cable. An external ADSL or fibre modem is required. 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 Secure Multicast Server software ensures that any DHCP-configured Amino set-top (such as the AmiNET120) 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 (YPbPr), S-Video, SD and HD formats. RF Modulator with loop-through. Standard definition PAL or NTSC. High Definition 720p and 1080i (Analogue). Stereo & Digital Audio S/P-DIF (Electrical)
Graphics Resolution	640x576 (minimum)
Codecs	MPEG-2 MP@HL
Size	114 x 100 x 35 mm
Construction	One-piece Aluminium Extrusion
Power	5V, 700mA
Operating Environment	0-45 °C 80%RH
EMC Conformance	FCC Pt 15, EN55022, EN50082-1, EN61000
Safety Approvals	EN60950, UL60950, ELSVD, CE, CB and CSA-22.1

Accessories

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

* Regional Options: USA, Europe, UK, Japan.



Rear View

