AdvancedDigital Inc.

Aminet A140

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Next generation MPEG-2 and MPEG-4 high definition IP-set-top box (STB) in a compact case.

The world of IPTV has rapidly evolved in its relatively short history - from MPEG-2 to MPEG-4, SD to HD - and a host of other standards and features to support the delivery of TV services over managed broadband networks. With HD capability becoming a requirement of many new deployments worldwide, the A140 allows service providers to deliver a high performing HD STB, based on the latest generation STi7105 system-on-chip (SoC), but at a cost effective price point and without having to deploy an over-featured STB.

" The A140 delivers high definition in an extremely compact case"

HIGH DEFINITION

Flat-panel TVs have also rapidly evolved in recent years from standard definition to HD Ready and now Full HD. The A140 can decode resolutions up to 1080i 60Hz but is also able to de-interlace content and display it progressively - such as de-interlacing 1080i to 1080p - to deliver the picture quality your customers expect on their high-end LCD and Plasma TVs.

ADVANCED CODEC SUPPORT

The support of low bitrate advanced video codecs provides operators with the opportunity to grow revenue generating services, while maximising the efficient use of network bandwidth, creating the ability to:

* Reach a greater number of subscribers
* Increase the number of interactive and multicast channels
* Enhance viewing experience with HD channels.

UNIQUE

The A140 is a very compact STB, but is able to deliver high performance, along with the required connectivity including; analogue AV, HDMI, USB & S/PDIF. The unique Amino styling sits elegantly with any latest top-specification AV equipment in the living room.

EXTENSIVE ECOSYSTEM SUPPORT

The A140 is supported by an extensive ecosystem of middleware, browser, conditional access and DRM options required for the widely varying configurations of the IPTV market.

COMPREHENSIVE DESIGN TOOLS AND SUPPORT

Amino software technology is based on open standards such as Linux and HTML. Application developers for the A140 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.

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SOFTWARE UPDATES AND MAINTENANCE

The A140 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 A140 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.

ABOUT AMINO COMMUNICATIONS

Amino Communications is a world leading IPTV and hybrid/OTT innovator – bringing new entertainment products and solutions to a global market. With over three million devices sold to 850 customers in 85 countries, Amino's award-winning solutions are deployed by major network operators and service providers worldwide. Amino's speed-to-market, agility and leading-edge technology has secured important partnerships with global vendors, including Intel® and Ericsson, to deliver the rich entertainment experience consumers are demanding. Amino Communications is a wholly owned subsidiary of Amino Technologies plc and listed on the London Stock Exchange Alternative Investment Market (AIM: symbol AMO). It is headquartered near Cambridge, in the UK, with offices in the US, China and Sweden.

SPECIFICATION

SIZE AND WEIGHT	114mm x 100mm x 35mm. 280g (excluding accessories and packaging)
INPUTS	Ethernet 10/100 BaseT via RJ-45 shielded connector
OUTPUTS	HDMI 1.3a. (excl. Deep colour and DTS audio) with HDCP. S/PDIF (optical). USB2.0. 10-way Mini-DIN for Composite video, Component (YPrPb),RGB, S-Video and analogue audio. RF Mod and loop through.
POWER	5V DC at 1.5A via external power supply Less than 8W typical usage (external supply input voltage 100-240V AC 50-60Hz, 0.8A max, output 5VDC 3A)
CODECS	MPEG-2 MP@HL MPEG-4 pt10 AVC/H.264 HP@L4
VIDEO RESOLUTIONS	Decodes up to 720p and 1080i. Displays up to 1080p
GRAPHICS RESOLUTIONS	HD graphics up to 1280x720
AUDIO	Stereo audio and Dolby 5.1 surround via S-PDIF and HDMI. Dolby Digital+ pass through to external decoder
SECURITY	Wide selection of DRM and Conditional Access support. HDCP on HDMI. Macrovision (optional)
MEMORY	128MB Flash, 256MB RAM
FRONT PANEL LEDS	Power on/IR command received (Red)
OPERATING ENVIRONMENT	ETS 300-019-1-3 Class 3.1

EMC CONFORMANCE	FCC Part 15 class B. 2004/108/EC EN55022
SAFETY APPROVALS	CAN/ CSA-C22.2 No. 60950-1-03 EN60950
ROHS	2002-95-EC
WEEE	2002-96-EC
OPERATING TEMPERATURE	0˚C (32˚F) to 40˚C (104˚F)
STORAGE HUMIDITY	5% to 95% RH (non-condensing)

ACCESSORIES

Remote control (510-710)	Standard
Power supply with regional power cord	Standard
Anti-slip base	Standard
IR keyboard (502-455)	Optional
HDMI cable (510-885)	Optional
SCART cable (502-418)	Optional
Component (YPrPb or RGB) cable (502-419)	Standard
S-VHS & Composite (CVBS) cable (502-594)	Standard