amino

A540 PVR

HIGH DEFINITION PVR IP-STB
Next generation high definition, high performance
set-top box (STB) with integral PVR

**Next generation IPTV services are demanding more from
the STB. The need for a fast response to user commands,
the ability to run more CPU intensive applications
and browsers, through to displaying higher video
resolutions and high quality graphics - all demand the
latest generation of system-on-chip (SoC) solutions.
The new range of HD STBs from Amino Communication
uses the new STi7105 from STMicroelectronics to
deliver that performance requirement to service
operators, together with a comprehensive feature
specification to provide a competitive advantage.**

*" The A540 PVR delivers
the next generation
of high definition STB
performance "*

HIGH DEFINITION
Flat-panel TVs have rapidly evolved in recent years from
standard definition to HD Ready and now Full HD. The A540
PVR 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.

PERSONAL VIDEO RECORDING
The integral hard disk drive brings time shift recording of multiple
channels, pause live TV and push Video-on-Demand (VoD) features
to telco TV services. When combined with suitable middleware,
the A540 PVR also supports multi-room PVR capability, significantly
increasing the revenue opportunities per installation.

EXTENSIVE ECOSYSTEM SUPPORT
The A540 PVR 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 A540 PVR 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.

**TO FIND OUT MORE ABOUT THE A540 PVR PLEASE
CONTACT AN AMINO REPRESENTATIVE TODAY.**

A540 PVR

amino

SOFTWARE UPDATES AND MAINTENANCE

The A540 PVR 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 A540 PVR can be upgraded with a new software image via the secure multicast server. The multicast approach ensures that very large numbers of deployed set-tops 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	172mm x 180mm x 48mm. 700g (excluding accessories and packaging)	**OPERATING ENVIRONMENT**	ETS 300-019-1-3 Class 3.1
INPUTS	Ethernet 10/100 BaseT via RJ-45 shielded connector	**EMC CONFORMANCE**	FCC Part 15 class B. 2004/108/EC EN55022
OUTPUTS	HDMI 1.3a (excl. Deep colour and DTS audio) with HDCP. 10-way Mini-DIN for Composite video, Component (YPrPb), RGB, S-Video and analogue audio.S/PDIF (optical). USB2.0. RF Modulator	**SAFETY APPROVALS**	CAN/ CSA-C22.2 No. 60950-1-03 EN60950
		ROHS	2002-95-EC
		WEEE	2002-96-EC
POWER	5V DC at 3A via external power supply Less than 12W typical usage (external supply input voltage 100-240V AC 50-60Hz, 0.8A max. Output 5V DC 3A)	**OPERATING TEMPERATURE**	0˚C (32˚F) to 40˚C (104˚F)
		STORAGE HUMIDITY	5% to 95% RH (non-condensing)
HDD	250GByte standard. Other sizes on request		
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	Analogue stereo audio out. Stereo 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 on SD outputs (option)		
MEMORY	128MB Flash, 256MB RAM		
FRONT PANEL LEDS	Dual colour standby (Red) & power on (Green) flashes for IR received command received, record (Red), playback (Green)		

ACCESSORIES

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

amino