

ADB-3800W

Advanced, high-definition,
IPTV set-top box with
home-networking
capabilities



Advanced GUI navigation
via browser

Choice of IPTV conditional
access and middleware

Ethernet interface

HDMI™ interface

USB 2.0 connectivity

The ADB-3800W is an advanced, interactive, set-top box optimized for IP-based telecommunications networks. The unit is compatible with the industry's leading conditional access, digital rights management (DRM) and middleware technologies.

This new unit boasts the latest system on chip microprocessor, providing performance enhancements such as fast channel change and swifter rendering of on-screen applications, such as the Electronic Program Guide (EPG). The unit is compatible with high-definition (HD) and standard definition (SD) television transmissions across all industry standard compressions, including MPEG-2 and MPEG-4/H.264 video coding, allowing operators to optimize their broadcast bandwidth. ADB's advanced and state-of-the-art HD technology, coupled with a High Definition Multimedia Interface™ (HDMI™) interface, ensures crystal clear viewing and playback of all television transmissions.

The ADB-3800W can provide the most up-to-date interactivity through a number of leading IPTV middleware solutions.

The ADB-3800W set-top box can connect directly to the ADB-5810WX DVR as part of a multi-room, home networking system. This allows the set-top boxes to access content stored on a DVR's hard-drive in addition to controlling the recording from a second location.



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Advanced, high-definition, IPTV set-top box with home-networking capabilities



Technical specifications

TV Reception

- ▶ IPTV

System Resources

- ▶ FLASH memory: Up to 68MB
- ▶ RAM memory: Up to 192MB (DDR)

Software

- ▶ Linux, Mozilla Browser
- ▶ ADB JavaScript API for IPTV and DVB
- ▶ Selection of IPTV middleware
- ▶ Compatible with MS Windows CE 5.0 BSP
- ▶ Advanced Graphical User Interface
- ▶ UPnP Media Player & Server
- ▶ Video Telephony
- ▶ HDD MP3 Player & Photo Album
- ▶ Electronic Program Guide
- ▶ Picture in Picture functionality

Security

- ▶ CGMS-A on analog outputs
- ▶ Selection of embedded DRM & Conditional Access
- ▶ Macrovision on SD output
- ▶ HDCP on HDMI output

IP Protocols & Standards

- ▶ IGMP2 [RFC 2236], IGMP3 [RFC 3376]
- ▶ RTSP [RFC 2326]
- ▶ RTP [RFC 3550]
- ▶ PPPoE [RFC 2516]
- ▶ SIP [RFC2543]
- ▶ NTP [RFC 1305]
- ▶ SSL 3.0
- ▶ TLS 1.0 [RFC 2246]
- ▶ HTTP 1.1, HTTPS, HTTP Authentication [RFC 2617]

- ▶ DHCP [RFC 2131]
- ▶ HTML 4.01, Dynamic HTML
- ▶ XHTML 1.0
- ▶ JavaScript 1.5
- ▶ DOM level 2
- ▶ CSS level 2
- ▶ TR-069/TR-111

Video

- ▶ MPEG-1 (SD)
- ▶ MPEG-2 MP@ML (SD) and MP@HL (HD)
- ▶ MPEG-4 p.10 (H.264) MP@L3 (SD) and MP@L4.1 (HD)
- ▶ H.263 decoding and encoding for video telephony
- ▶ MP@LL, MP@ML, MP@HL, AP@L1-3
- ▶ Video format: 4:3, 16:9 with Pan Scan, Letterbox
- ▶ Up-scaling of SD video on HD output
- ▶ Downscaling HD video on SD output
- ▶ Resolution: up to 1920x1080
- ▶ 32-bit color for OSD graphics and external applications

Audio

- ▶ MPEG-1 Layers I, II, III (MP3)
- ▶ MPEG-2 Layer 2
- ▶ MPEG-2 AAC LC and AAC+
- ▶ MPEG-4 AAC LC 2-channel/5.1 channel, MPEG-4 AAC+SBR 2-channel/5.1 channel
- ▶ WMA-9, WMA-9 Pro
- ▶ G.7xx for VoIP
- ▶ Echo cancellation for VoIP
- ▶ Mono, Dual Mono, Stereo, Joint Stereo
- ▶ Dolby Digital pass-through to external decoder
- ▶ Dolby Digital Down-mix

Return channel

- ▶ IEEE 802.3 10/100 Ethernet interface

Front Panel

- ▶ Optional Smartcard slot behind flap
- ▶ 8 navigation keys
- ▶ 4 segment display
- ▶ STB status LED indicators
- ▶ USB 2.0

Back Panel Connectors

- ▶ RF Modulator
- ▶ TV RCA output
- ▶ S-Video output
- ▶ YPrPb high definition output
- ▶ HDMI high definition output
- ▶ Digital S/PDIF optical audio output
- ▶ USB 2.0
- ▶ RJ-45 Ethernet port
- ▶ DC power input

Accessories

- ▶ Remote Control
- ▶ Quick Install Manual
- ▶ Batteries
- ▶ Power cord with PSU

Accessories (OPTIONAL)

- ▶ Audio/video cables
- ▶ Ethernet cables
- ▶ User manual

General Data

- ▶ Operating temperature range +5 to +40(°C)
- ▶ AC input voltage: 90 - 264 V, 50/60 Hz
- ▶ Dimensions: 11.4" x 2.2" x 8.7"
- ▶ FCC, UL & CUL compliance

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All ADB's IPTV solutions can offer the following internet TV capabilities: DIVX, WMV (Windows Media Video), H.263/VP6 (YouTube) and standards-based browser. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. ADB S.A. reserves the right to change, modify or enhance this specification at any time without prior written notice. ADB S.A. is a member of ADB Group (www.adbholdings.com).
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