ADB-5810WX
Advanced, high-definition, IPTV DVR with home-networking capabilities

Key features

- Up to 500GB DVR
- Enhanced GUI navigation via browser
- Home media center
- Choice of IPTV conditional access and middleware
- Ethernet interface
- HDMI™ interface
- USB 2.0 connectivity

The ADB-5810WX is an advanced, interactive, digital video recorder (DVR) optimized for IP-based telecommunications networks. The unit is compatible with the industry's leading conditional access, digital rights management (DRM) and middleware technologies and supports high-quality digital recording and playback, allowing users to be in complete control of their television experience.

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, H.264 and VC-1 Advanced Video Coding (AVC), 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 advanced, on-screen navigation of the ADB-5810WX provides a simple and intuitive interface for managing a personal recording portfolio, including EPG, favorite channels and customization according to individual needs. The dedicated remote control unit (RCU) allows complete control of the DVR and one-touch recording. The ADB-5810WX provides the most up-to-date interactivity through a number of leading IPTV middleware solutions.

Both the ADB-3800W and ADB-5800/10W set-top boxes 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 the DVR's hard-drive in addition to controlling the recording from a second location.
# ADB-5810WX

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## Technical specifications

### TV Reception
- **IPTV**

### System Resources
- **FLASH memory:** Up to 64MB
- **RAM memory:** Up to 256MB (DDR)
- Up to 500GB built-in Hard Disk Drive (HDD)

### 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
- Pairing of the HDD with the STB
- Secure Video Processor (SVP)

### IP Protocols & Standards
- IGMP2 [RFC 2236], IGMP3 [RFC 3376]
- RTSP [RFC 2326]
- RTP [RFC 1889]
- PPPoE [RFC 2516]
- SIP [RFC2543]
- NTP [RFC 1305]
- SSL 3.0

### 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**
- **SMPTE VC-1 SP@LL, MP@LL, MP@ML, MP@HL, AP@L3-3**
- **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
- **9 navigation keys**
- **4 segment display**
- **STB status LED indicators**
- **Optional USB 2.0**

### Back Panel Connectors
- **RF Modulator & Loop-thru output**
- **TV & VCR 3 x RCA output**
- **S-Video output**
- **YPbPr high definition output**
- **HDMI high definition output**
- **Digital S/PDIF optical audio output**
- **USB 2.0**
- **RS-45 Ethernet port**
- **DC power input**

### Accessories
- **Remote Control**
- **Batteries**
- **Power Cord with PSU**
- **Quick Install Manual**

### Accessories (OPTIONAL)
- **Audio/Video cables**
- **Ethernet cable**
- **User Manual**

### General Data
- **Operating temperature range:** +5 to +40°C
- **AC input voltage:** 90 - 264 V, 50/60 Hz
- **Dimensions:** 12.8" x 2.4" x 10"