

ADB-5820C/CX



Advanced, high definition,
digital cable set-top box with
optional DOCSIS® return channel
and digital video recording



Key features

Advanced single chip
processor with optional
DOCSIS® module

MPEG-2, MPEG-4/H.264
and VC-1 reception

HDMI™ interface with HDCP
copy protection

Optional DOCSIS®/Euro-
DOCSIS™ 2.0 modem,
V.92 PSTN modem or
Ethernet interface

Optional twin DVB-C
front end and up to 500GB
hard disk drive capacity

The ADB-5820C/CX is a flexible, interactive, digital cable platform supporting high definition (HD) television reception. Equipped with a choice of return channel via Ethernet, PSTN or integrated DOCSIS® modem, the product provides the operator with an advanced solution for delivering a wealth of enhanced television services into the home.

The product is designed to enable cable operators to provide their customers with the highest quality in sound and vision. The inclusion of a single-chip, advanced, HD/AVC microprocessor ensures efficient decoding of HD television. The unit ships with a High Definition Multimedia Interface™ (HDMI™) to ensure the highest quality transfer of sound and image to a HD-ready television, whilst anti-copy protection is provided according to the HDCP protocol.

The set-top box is optimised for cable companies who operate advanced, two-way networks and wish to provide their customers with high bandwidth return channel services such as Video on Demand (VOD). The main microprocessor is complemented by an optional fully integrated DOCSIS® modem module.

The platform provides optional digital video recording via the inclusion of a twin-tuner and DVR software extensions. This enables the consumer to watch one channel whilst recording another and record events automatically from an advanced Electronic Programme Guide (EPG) stored on the integrated 500GB hard disk drive.

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HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

Technical specifications

TV Reception

- ▲ DVB-C front end
- ▲ RF loop-through
- ▲ Optional PAL or NTSC RF Modulator

System Resources

- ▲ FLASH memory: Up to 64MB
- ▲ RAM memory: Up to 256MB (DDR)

CA

- ▲ Irdeto, Nagra, NDS and other popular CAS
- ▲ Complies with CA vendors security requirements

Software

- ▲ Linux OS
- ▲ ADB- bootloader
- ▲ MHP 1.1.x, NDS core, OpenTV, ADB- proprietary
- ▲ Advanced Graphical User Interface
- ▲ Automatic channel installation
- ▲ Electronic Program Guide
- ▲ Loader for Over-The-Air software upgrade
- ▲ Games

Security

- ▲ Up to 2 x Smart Card slots compliant with CAS vendors security requirements
- ▲ Macrovision on SD output
- ▲ HDCP on HDMI output

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)
- ▲ SMPTE VC-1 SP@LL, 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 of HD video on SD output
- ▲ Resolution: up to 1920x1080
- ▲ High Definition OSD

Audio

- ▲ MPEG-1 Layers 1,2,3 (MP3)
- ▲ MPEG-2 Layer 2
- ▲ MPEG-2 & MPEG-4 AAC
- ▲ Dolby Digital EX, DD+
- ▲ WMA-9
- ▲ Mono, Dual Mono, Stereo, Joint Stereo
- ▲ Dolby Digital pass-through to external decoder
- ▲ Dolby Digital Down-mix

Return channel/Interactivity

- ▲ Optional DOCSIS® / EuroDOCSIS™ 2.0 cable modem
- ▲ IEEE 802.3 10/100 Ethernet interface
- ▲ Optional PSTN V.92 modem

Front Panel

- ▲ Up to 2 x Smartcard slot
- ▲ Up to 14 buttons and navigation keys
- ▲ 4 segment display or dot matrix display
- ▲ STB status LED indicators

Back Panel Connectors

- ▲ RF input
- ▲ RF out for Loop-through or RF Mod output
- ▲ TV & VCR SCART output & YPrPb high definition output, or TV & VCR 3 x RCA output & YPrPb high definition output
- ▲ S-Video output optional
- ▲ Optional 2 x RCA audio stereo output
- ▲ HDMI high definition output
- ▲ Digital S/PDIF audio output
- ▲ Up to 2 x USB 2.0
- ▲ RJ-45 Ethernet port
- ▲ RJ-11 modem port optional

Accessories

- ▲ Universal remote control
- ▲ Audio/Video cables
- ▲ Ethernet cable
- ▲ Batteries
- ▲ Power cord with PSU
- ▲ Getting started User Manual

General Data

- ▲ Up to 500GB HDD capacity for PVR
- ▲ External Power Supply
- ▲ Operating temperature range +5 to +40(°C)
- ▲ AC input voltage: 90 - 264 V, 50/60 Hz
- ▲ Dimensions (WxDxH): 310 x 48 x 220mm
- ▲ EU norms compliance, CE marking, or FCC, UL & CSA compliance

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