

ZC4210 / ZC4100

Zapper Cable Set-Top

DVB-C, HEVC, HD Set-Top with optional 802.11n Wi-Fi



FEATURES

- High-definition small-form STB solution
- Integrated DVB-C tuner/demodulator
- Full range of HD and SD video formats up to 1080p60
- HDMI 1.4™
- Compliant with EU power consumption regulations
- Range of middleware options available
- Range of conditional access options available including pre-integration with Titanium, Verimatrix and Conax
- Industry-standard DRM support including pre-integration with Microsoft® PlayReady®
- Optional 2x2 dual-band selectable IEEE 802.11n Wi-Fi
- Range of optional analogue outputs
- AVC only processor option (ZC4100)

PRODUCT OVERVIEW

The ZC4210 is a small-form cable HEVC set-top box solution for lower-cost but still high-performance DVB operations. The product uses the latest silicon technology to reduce size and power consumption while increasing processing. It is capable of functioning as a stand-alone device or, via its networking as part of a connected home network.

High Performance - a class-leading processor delivers impressive performance over previous generations of devices whilst reducing power. Its high-capability CPU lends itself to hybrid broadcast and interactive operations and the processor is capable of supporting all modern security architectures (CAS and DRM). A flexible memory configuration supports a rich software experience and, finally, highly-sensitive broadcast tuners make for high reliability in challenging signal conditions.

High Quality - High Efficiency Video Coding (HEVC or H.265) is the next-generation of video codec, offering up to 50% bandwidth savings on the H.264 standard. HEVC can be used by operators to deliver a superior quality-of-experience within the same cable bandwidth or to increase their existing capacity by re-encoding existing assets.



High Connectivity - the ZC4210 integrates USB 2.0 and fast (10/100) Ethernet for the connection of peripherals and networking.

Optional Modules - the unit supports an optional IEEE 802.11n dual-frequency MIMO Wi-Fi block for wireless networking or can interface via its built-in fast Ethernet to external networking such as PLC. These modules are designed to build into an attractive and complimentary stack of components, allowing operators to extend ARPU in a staged manner.

The same unit also can be configured with an AVC only device for further costs savings, if HEVC is not required (ZC4100).

GENERAL SPECIFICATIONS

Core Processor

Processing 2000 DMIPS

Graphics

Technology 2D processing up to 324 Mpix/s

Memory

RAM 512 MB DDR3

Application Flash 128 MB

Cable Frontend

Input IEC 61169-2 Female

Tuning Range 106-1006 MHz

Tuner/Demodulator DVB-C tuner and demodulator compliant to EN 300 429

Symbol Rate 4.0-6.952 Msym/s with notional support up to 7 Msym/s

Modulation 64-, 128- and 256-QAM

Output IEC 61169-2 Male
Loop through of input
Gain (signal-in to out): 2 dB \pm 2 dB
(Powered)

GENERAL SPECIFICATIONS - CONTINUED

Video Decode / Encode

Decoders/Resolutions Single up to 1080p60

Encoders None

Profiles HEVC H.265 up to MP@L5.1; AVC H.264 up to MP@L4.2; MPEG-2 up to MP@HL

Optional Codecs WMV, DivX, VC1, VP8

Audio Decode

Sample Rate 32-192 kHz

MPEG Audio MPEG-1 Layers 1, 2

MPEG-4 Audio HE AAC v2 profile

Dolby Dolby Digital™, Dolby Digital Plus™

Optional Codecs WMA, MPEG-1 Layer 3

GENERAL SPECIFICATIONS - CONTINUED

Front Panel

Remote Control	IR
Indicators	Up to 4 LEDs
Buttons	Up to 4

Rear Panel

RF	IEC 61169-2 female (In) IEC 61169-2 male (Out)
Digital AV	HDMI 1.4
Analogue AV	CVBS via RCA, L/R audio via RCA
USB	USB 2.0 Type A (500 mA)
Ethernet	RJ-45 10/100 Mbps
CAS	(Bottom) Full-size smartcard
Power	DC input

GENERAL SPECIFICATIONS - CONTINUED

CAS and Security

Secure Processor	Yes
Interface	Full-size compliant to ISO 7816
HDCP	HDCP 1.2
Analogue CP	Rovi 7.1 CGMS-A

Power

195-265 V, 50-60 Hz supply
EU Code-of-Conduct compliant
Compliant to Energy using products legislation (<1 W standby)
External PSU

CUSTOMER CARE

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656



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