

# 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 ± 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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