

# HMC4100 Cable Media Gateway

DVB-C, AVC, HD DVR with DOCSIS® 3.0 modem & transcoder



## FEATURES

- 1 GHz Full-Spectrum Capture Tuner with four channels
- 3000 DMIPS Processor
- Full-featured, DOCSIS/EuroDOCSIS 3.0 compliant embedded cable modem with 4x4 channel bonding
- HD Video Transcoding for multi-screen service
- HDTV decode of MPEG-2, MPEG-4 AVC (H.264)
- Dolby® Digital, Dolby® Digital Plus, AAC-LC/HE-AAC
- Video scaling and Video-in-Graphics, with accelerated 2-D and 3-D Graphics
- Novel-SuperTV & Conax Conditional Access (Advanced Security) compliance
- HDCP and DTCP content protection
- Low-power mode (0.5W)

## PRODUCT OVERVIEW

The HMC4100 is an all-digital DVB-C cable platform with an embedded DOCSIS 3.0 modem, designed to extend the possibilities for broadband television. It provides high-definition (HDTV) video, along with support for detachable mass storage devices, multisession local DVR/PVR, on-demand services and OTT video streaming.

HMC4100 supports a wide range of video rates and decodes standard MPEG-2, H.264 and MPEG-4 transport streams including most audio/video formats. The platform supports interactive services with ARRIS KreaTV integrated: a full-featured set-top framework for TV applications, supporting CAS and/or DRM, browser applications and a comprehensive SDK for rapid application programming by the service provider or a third party.

Powered by Full Spectrum Capture and Multi-QAM technology, the HMC4100 Fast Channel Change (FCC) feature provides an excellent zapping experience whilst the powerful transcoding capability and ARRIS KreaTV software enables multi-screen services such as view, booking and manage Live TV and DVR/PVR content on mobile or OTT devices.

The HMC4100 also provides the latest secure HDMI output and Dolby audio. With its superior system specification, HMC4100 offers excellent performance across a variety of hybrid applications for both data and video.

### Benefits

- Full-band digital video tuner and up to four channels
- Fast Channel Change (Zapping within 0.5 s, may vary among different CAs)
- RF Spectrum Analysis and Network Health Data provided remotely
- Powered by ARRIS KreaTV hybrid solution, with HTML5 web browser and support for downloadable web apps
- Embedded (Euro)DOCSIS 3.0 provides cost-effective data gateway features
- Detachable HDD to provide a high-quality multi-session DVR/PVR
- Internet portal supporting OTT services
- Advanced security compliance
- Hybrid DVB video gateway with embedded data processing

### GENERAL SPECIFICATIONS

#### Core Processor

Processing 3000 DMIPS

OS Linux

#### Graphics

Technology 32-bit color, accelerated 2D support, and scalable video-in-graphics

Resolution SD and HD outputs 1920×1080

#### Memory

RAM 1 GB DDR3

Application Flash 256MB (option up to 512MB)

#### Cable Frontend

RF Input Frequency 110..1002MHz

RF input level -23..30 dBmV (64QAM)

Symbol rate 1..6.9 Ms/s

Tuning Bandwidth 6MHz/8MHz

#### Video Decode/Encode

Decoding MPEG-2, MPEG-4, H.264, VC1, VP6, VP8

Output Resolution Up to 1080p50/60

#### Audio Decode

Decoding Dolby Digital, Dolby Digital Plus, DD/DD+ down mix, HE-AAC, MPEG L1/2



## GENERAL SPECIFICATIONS

### Front Panel

Power LED	Dual-color
CM & HDD LED	Single-color, cable modem & HDD
IR remote control sensor	

### Rear Panel

RF input	F-Type
Mini-Phone type A/V out	Composite Video/Baseband Audio
S/PDIF Digital Audio output	Coaxial
HDMI output	HDMI 1.4 with HDCP 1.2
External IR input	3.5mm
USB	2x USB2.0 (rear and side)
Ethernet	10/100 Adaptive
Power input	12V DC input
Power Switch	Rocker
SmartCard slot	ISO-7816 Standard

## GENERAL SPECIFICATIONS

### Top/Bottom Chassis

Power (Standby)	Standby/Power on
Control Buttons	Up/Down/Left/Right/OK/Menu
Detachable HDD interface	For detachable HDD Installation

### Power

AC Voltage	100..240VAC, 50/60 Hz
Power consumption	Typical: <10 W (depending on feature set) Max: <24 W; Sleep: <0.5 W

### Physical

Operating temperature	0..50 °C
Operating humidity	5..95% (non-condensing)
Dimensions	260(W) × 165(D) × 51(H) mm
Weight	660g (without HDD)

## CUSTOMER CARE

Contact Customer Care for product information and sales:

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



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