

MC6505 UHD Cable Media Gateway

DVB-C, HEVC Ultra-HD Media Gateway
with 802.11ac Wi-Fi



FEATURES

- Ultra-high definition HEVC set-top box solution
- Integrated DVB-C, full-band tuner with eight demodulators
- IEEE 802.11ac dual-band (selectable) Wi-Fi
- HDMI 2.0™
- Full range of video resolutions and digital output options
- 3D graphics support (OpenGL ES 3.1, 2.0 and 1.1)
- Power down mode and compliant with EU power consumption regulations
- Secure bootloader
- Industry standard DRM support (including Microsoft® PlayReady®)
- Up to 4x4 and dual-band concurrent Wi-Fi (option)
- High end MIMO (option)
- Rackable and removable hard disk (option)

PRODUCT OVERVIEW

The MC6505 is a high-end, premium Ultra-High Definition (UHD) home media server for market-leading operators and deployments. Top-of-the-range technology is throughout this product providing a platform for the premium customer. A powerful processor and memory allow all the leading software solutions to be deployed with ease and gives the ultimate environment for customisation. UHD and HEVC/VP9 supports the next generation of high definition content on the most stunning of today's displays.

High Performance - the MC6505 supports all the customer's next-generation TV media needs including content serving, tuner sharing, OTT and IP content and applications and transcoding to support CE devices. A high-end, 12000-DMIPS processor, OpenGL 3.1 and DDR4 memory give the platform power into the future and a modular frontend allows complex hybrid connections or even mid-term upgrade flexibility.

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 bandwidth or to increase their existing capacity by re-encoding existing assets.

UHD (or 4K) gives four times the resolution of full HD and improves colour reproduction for picture even closer to reality, all at the frame rates that allow fast-moving action with reduced blurring.

High Connectivity - the MC6505 is a highly-connected unit with integrated IEEE 802.11ac dual-band wireless and gigabit Ethernet. USB 3.0 allows the connection of external peripherals and Bluetooth Low Energy allows an optional advanced remote control unit and features such as voice search to be supported.

GENERAL SPECIFICATIONS

Core Processor

Processing 12000 DMIPS

Graphics

Technology 2D processing up to 1.6 Gpix/s
3D processing up to 2.7 Gpix/s
OpenGL ES3.1

Memory

RAM 2 GB DDR4
option: 3 GB or 4 GB DDR4

Flash 512 MB

Program Storage

Hard Disk Drive 1 TB, 2.5 inch, Fixed or Removable

Interface SATA

Cable Frontend

Input IEC 61169-2 Female

Tuning Range 106-1006 MHz

Tuner/Demodulator DVB-C FBC tuner and 8x 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

GENERAL SPECIFICATIONS - CONTINUED

Video Decode / Encode

Decoders Single 4Kp60
Quad up to 1080p60

Encoders Dual up to 1080p30

Profiles HEVC H.265 up to MP@L5.1; AVC
H.264 up to MP@L4.2; MPEG-2 up to
MP@HL
VP9 Profile 0

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

Home Networking

Wi-Fi	IEEE 802.11n/ac 3T3R 2.4 GHz and 5 GHz selectable
RF4CE	Yes option: Bluetooth 4.x / BLE

Rear Panel

RF Input	IEC 61169-2 Female
Digital AV	HDMI 2.0, S/PDIF optical
Analogue AV	None option: CVBS + L/R audio mini DIN
USB	USB 3.0 Type A (900 mA) USB 2.0 Type A (500 mA)
Ethernet	RJ-45 GbE
CAS	SIM-style smartcard
Power	DC input Pen-push reset

GENERAL SPECIFICATIONS - CONTINUED

CAS and Security

Secure Processor	Yes
Interface	SIM-style compliant to ISO 7816
HDCP	HDCP 2.2
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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