

# MS6505 UHD Satellite Media Server

DVB-S2X, HEVC, Ultra-HD Media Server with 802.11ac Wi-Fi



## FEATURES

- Ultra-high definition HEVC set-top box solution
- Integrated dual DVB-S/S2 wide-band, full-band tuner with eight demodulators
- SatCR, Unicable and DiSEqC support
- 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
- Integrated with industry-standard middlewares including Cisco, OpenTV and Elements state-of-the-art HTML5-based middleware
- Secure bootloader
- Industry standard DRM support (including Microsoft® PlayReady®)
- 16 demodulators (option)
- DVB-S2X support (option)
- Up to 4x4 and dual-band concurrent Wi-Fi (option)
- High end MIMO (option)
- CI/CI+ (option)
- Rackable and removable hard disk (option)
- Terrestrial hybrid option available

## PRODUCT OVERVIEW

The MS6505 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 MS6505 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 MS6505 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

Application Flash 8 GB eMMC

Boot Flash 4 MB SPI NOR

### Program Storage

Hard Disk Drive 1 TB, 3.5 inch, Fixed or Removable  
option: 2.5 inch, Fixed or Removable

Interface SATA

### Satellite Frontend

Input 2 x IEC 61169-2 Female

Tuning Range 250-2350 MHz

Input Signal Level -65 to -25 dBm

Tuner/Demodulator 2x Wideband tuners and 8x QPSK/8PSK  
demodulators compliant to EN 300 421  
and EN 302 307

Symbol Rate 2-45 Msym/s

LNB Supply 350 mA continuous supply

LNB Control 13/18 V, 22-kHz tone

DiSEqC 2.0 and SatCR

## 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

Bluetooth 4.X / BLE

### Rear Panel

RF Input 2 x IEC 61169-2 Female

Digital AV HDMI 2.0, S/PDIF optical

Analogue AV None  
option: CVBS via RCA, L/R audio via RCA

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 restart

## 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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