

DVB HD HYBRID QAM/IP MoCA STB

Product Code: DMS1004HDHM



Evolution Digital's HD MoCA Hybrid Set-Top Box delivers IP connectivity for hybrid functionality through the existing coax connection. Multimedia over Coax Alliance (MoCA®) provides one connection for both the cable TV video services and internet, and is a universal standard for home entertainment networking.

The Hybrid MoCA Set-Top combines traditional cable programming with IP delivered content, including cable operators VOD services, internet radio and RSS feeds for news, sports and weather on one brilliant, user friendly user-interface through CubiTV.

Evolution's Hybrid MoCA Set-Top provides an exceptional user experience through optional features like Pause Live TV (Instant Time Shift) with an external USB drive, offering the ability to buffer video storage, anywhere from five minutes to an hour based on the operators requirements. Providing subscribers with the feature of continuously recording so they can take that important phone call and not miss their show.

FEATURES & BENEFITS

- Compact High-Definition single tuner STB
- HD and SD MPEG-2/H.264
- Conax CAS7 Chipset Pairing
- Cubiware / CubiTV supported
- HDMI output with copy protection
- HD/SD MPEG-2, HD/SD MPEG-4
- Playready 2.0 capable DRM
- MoCA 1.1 & 2.0
- HLS & Smooth Streaming Video Support
- PVR Ready with Optional External HDD
- Pause Live TV/Instant Time Shift with Optional External USB stick
- 165 W x 130 D x 42 H mm

EVOLUTION DIGITAL

7347 S Revere Pkwy, Bldg A
Centennial, CO 80112

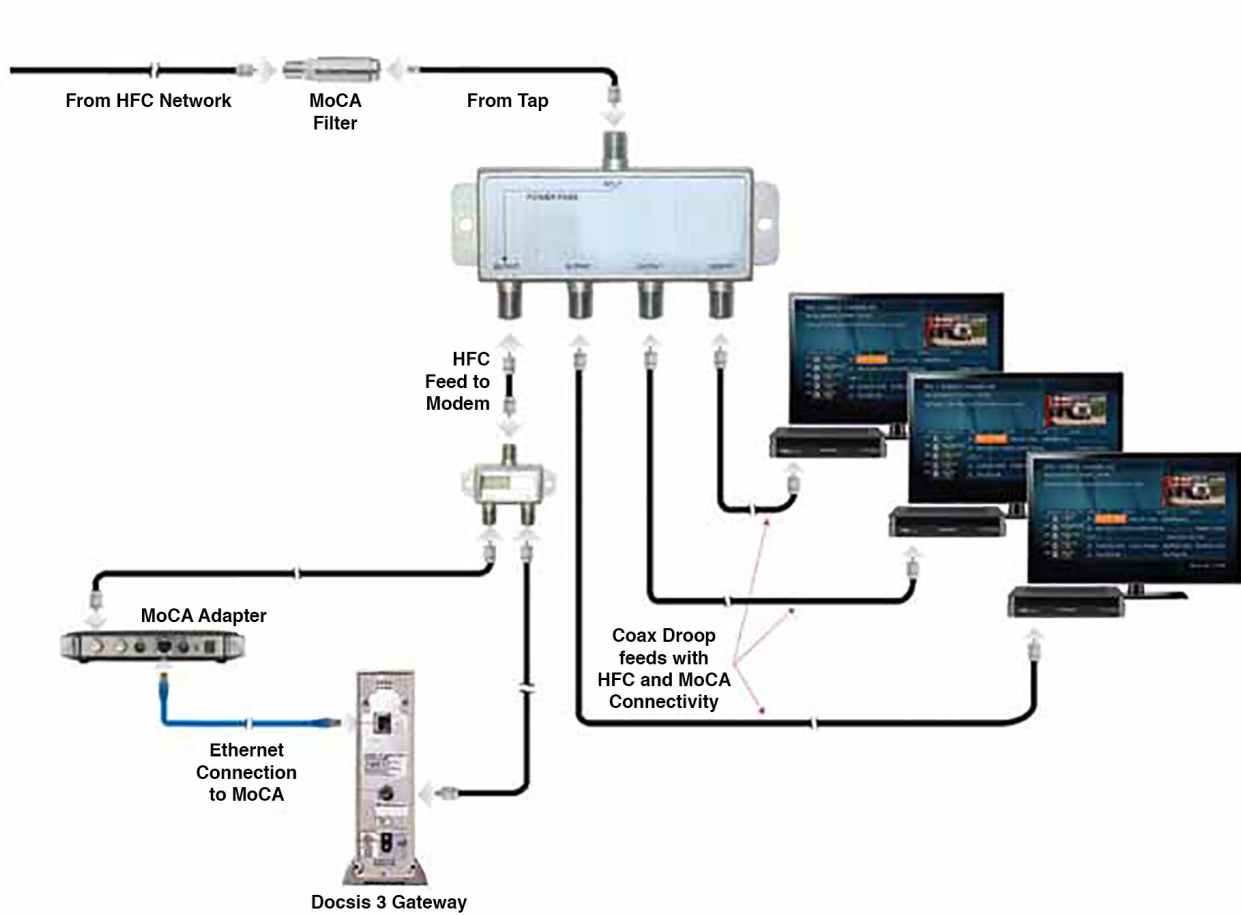
800.315.2253

evolutiondigital.com

MoCA Diagram

Product Code: DMS1004HDHM

How to modify the home cable network to support MoCA connectivity



All values are typical unless noted otherwise. Specifications are subject to change without notification.

Specifications

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Tuner & Band Switching

Front-End	Single DVB-C * 1
Input Frequency	47~870MHz
Connector	IEC 600169-24 Female (RF IN)

Demodulator

Channel Bandwidth	6 MHz
Demodulation	5.361 Msps for 256-QAM 5.057 Msps for 64-QAM
Modulation Format	1/2, 2/3, 3/4, 5/6, 7/8, Constellation : 16, 32, 64, 128, 256QAM

Video Decoding

Transport Stream	MPEG-2 ISO/IEC 1318-1
Profile Level	MPEG-2 MP@ML, MPEG-2 MP@HL, MPEG-4 AVC/H.264 HP@L4
Video Format	4:3, 16:9
Video System	NTSC
Video Resolution	HDMI output 1080i, 720p, 480p CVBS output 480i

Audio Decoding

Audio Decoding	MPEG-1, MPEG-2, AC3
Audio Mode	Single Channel, Dual Channel, Joint Stereo, Stereo

Chip & Memory

CPU	BCM7428, 3000 DMIPS, MoCA 1.1 & 2.0, CPU, 200DMIPS
Flash Memory	Nor flash : 2MB Nand flash : 128MB
SDRAM	256Kbits
EEPROM	256Kbits

Conditional Access and Advanced Security

CAS	CONAX CAS7 CSP
Smart Card Reader	Smart Card ISO 7816-3
DRM	Playready 2.0 capable
CGMS-A	Unsupported
HDCP	Supported

MoCA

Compliant Standard	MoCA 2.0 MAC/PHY
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A/V & Data In/Out

RCA A/V	Video output, Audio L/R
HDMI	1.4 compliant
IR receiver	Front Side & External IR Module
2xUSB	USB Ports 2.0 (Rear side)
Selectable Output	Yes

Power Supply

Input Voltage	DC Adaptor 12V/2.5A
Power Consumption	Max.20W

Front Panel

Display	LED (Normal/Standby)
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Physical Specification

Net Weight	450g on 1lbs.
Dimensions (W*H*D)	170x38x127mm

Physical and Environmental

Operating Temperature	0 ~ 50°C
Storage Temperature	-10 ~ +60°C
Operational Impact	Device can withstand 0.5N of force while operational without audio/visual impairments
Drop Test	While in the master carton or in gift box, device can sustain up to 1060 mm drop without physical damage
Vibration Test	Device can withstand vibration force of 1 Grms random, 5~150Hz on all three axis without damage for up to 30 minutes

Immunity

Radiated Immunity	Up to 3 V/m for carries over 80 MHz
Conducted Immunity	Up to 3 V/m for carriers up to 80 MHz
ESD	Immune up to +/- 8kV contact dis- charge and +/- 12kV air discharge
Surge Immunity	+/- 2kV surge on coax ports; +/- 4kV surge on power lines

Emissions

Radiated Emissions	Compliant with FCC Class B standard
Conducted Emissions	Compliant with FCC Class B standard

Audio Decoding

Audio Decoding	MPEG-1, MPEG-2, AC3
Audio Mode	Single Channel, Dual Channel, Joint Stereo, Stereo

Streaming Video

HLS	Fully supported with adaptive bit rate
Smooth Streaming	Fully supported with adaptive bit rate

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