MOTOROLA

FEATURES.

420 DMIPS processor.

128 MB main memory.

5.1 digital audio.

Component video (Y Pb Pr) connectivity on VIP1550 model.

BENEFITS

Supports feature-rich applications and graphics.

Pre-integrated with leading middleware applications and conditional access solutions.

Run KreaTV Application Platform for high performance and compatibility with other IP set-top models.

MPEG-2 HDTV support in VIP1550 model.

Multiple development environments available for operator-driven functionality and services.

May be used as the home network center-piece, playing personal media files and showing picture slideshows on the TV set.

VIP1500 series
MPEG-2 IP Set-Top Series

Deployed in successful IPTV solutions, the Motorola VIP1500 series enables broadband service providers to bring entertainment and information services to the living room.

The two models, VIP1510 and VIP1550, are reliable consumer set-tops for IPTV services and interactive applications over broadband networks. TV, EPG, video on demand and Internet can run in parallel with games, communication services and connected home solutions, forming a must-have solution for the TV experience.

Flexibility and reliability comes with the software platform, the KreaTV Application Platform. The open interfaces let service providers develop and deploy applications in html/JavaScript, C++ or Java, in-house or using their preferred third party developers.

TECHNICAL SPECIFICATION

HARDWARE

Microprocessor	MIPS processor with integrated TV video processing and MPEG decoder, performance 420 DMIPS
Main memory	128 MB DRAM
Flash memory	256 kB
Accessories	Infrared remote control
	Infrared keyboard (optional)

OPERATING SYSTEMS

Linux

STREAMING VIDEO

MPEG-1	800 kbits/s to 3 Mbits/s, CIF 352x288
MPEG-2	transport stream - PAT, PMT, video and audio streams, constant and variable bit rate, 2-25 Mbit/s, MP@ML
4:3 and 16:9 video format	format detection, scaling to letterbox, center cut-out and SCART signaling
High Definition (VIP1550 only)	MPEG-2, MP@HL, 1080p@50fps

VIDEO ON DEMAND

Interactive Video-on-Demand (IVOD) and Near Video-on-Demand (NVOD)	
Protocol RTSP	
Verified compliance with leading video server suppliers	

STREAMING AUDIO

Audio types	MPEG (Layer 1,2,3), PCM, AC3

SECURITY

SSL	version 3.0, 64 and128 bits
PKI	box login, encryption/decryption (Optional)
Macrovision copy protection	ver. 7.01 (Optional)

GRAPHICS

Computer graphics	24 bits/pixel RGB
Resolution	720x576 pixels (PAL), 720x480 pixels (NTSC)
Video	24 bits/pixel RGB
Picture-in-Graphics	
On Screen Display (OSD)	
Alpha blending	
Color keying	
Graphics accelerator	2D
Spatial - temporal deinterlacing	using motion detection and estimation
Flicker filtering of graphics	

Electrical values

External power supply	5V
Power consumption	<9 W full load

Physical

Dimensions	199 x 150 x 40 mm
Unit weight	0,5 kg
Noise	Silent, no moving parts

EXTERNAL INTERFACES AND CONNECTORS

ALL MODELS

Front panel

Status indication	1 x LED
IR-receiver	56 kHz

Side panel

Smartcard reader	ISO 7816-1/2/3/4
USB port	version 1.1

Rear panel

Ethernet	1 x RJ45 10/100 Base-T
Video	1 x RCA for composite video
	1 x mini DIN for S-video
Power	1 x 5V power connector
Analog stereo	Left/right RCA stereo connectors
Digital 5.1 sound	coaxial S/PDIF

MODEL SPECIFIC

VIP1510 rear panel

Video	1 x SCART for RGB, S-video and composite out

VIP1550 rear panel

Video	3 x RCA for component video (YPbPr)