

FEATURES

Media Digital Signal Processor supporting advanced video codecs such as MPEG-2, H.264 (MPEG-4) and VC-1.

420 DMIPS processor.

5.1 digital audio.

BENEFITS

Available as a hybrid model with a DVB-T tuner for combining IPTV with terrestrial broadcasts (VIP1720).

Seamlessly combine TV channels in one channel table regardless of broadcasting method or video format.

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

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

Support feature-rich applications and graphics.

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

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

Powerful programmable DSP offers flexible software support for many video formats.



The Motorola VIP1710 and VIP1720 - two small, stylish and competent IP set-tops for IPTV services over DSL networks. Supported video codecs range from MPEG-2 to MPEG-4 (H.264) and VC-1.

Full two-way IP connectivity uses the benefits of IP networks to the full extent. With the VIP1710 service providers can offer their subscribers compelling and entertaining services, true video on demand and video conferencing services. VIP1720 extends the service offering further by adding access to digital terrestrial television to the IPTV solution.

VIP1710/1720

Advanced Video Codec IP Set-Tops

TECHNICAL SPECIFICATION

HARDWARE

Microprocessor	MIPS processor with integrated TV video processing and MPEG decoder, performance 420 DMIPS
Main memory	128 MB DRAM
Video memory	MPEG-2 shared with main memory MPEG-4 16MB
Accessories	Infrared remote control Infrared keyboard (optional)
OPERATING SYSTEMS	Linux

STREAMING AUDIO

Audio types	MPEG (Layer 1,2,3), PCM, AC3
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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
H.264	PAT, PMT, video and audio streams, up to 3 Mbit/s
VC-1	PAT, PMT, video and audio streams, up to 3 Mbit/s
4:3 and 16:9 video format	format detection, scaling to letterbox, center cut-out and SCART signaling

DVB-T (VIP1720)

DVB-T	[ETSI EN 300 744]
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VIDEO ON DEMAND

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

EXTERNAL INTERFACES AND CONNECTORS

GENERAL CONNECTORS

Front panel	
Status indication	1 x LED
IR-receiver	56 kHz
Side panels	
Smartcard reader	ISO 7816-1/2/3/4
USB port	version 2.0 for peripherals
Rear panel	
Ethernet	1 x RJ45 10/100 Base-T
Video	SCART for RGB, S-video and composite out, SCART signaling
Analog stereo	Through SCART connector
Digital 5.1 sound	coaxial S/PDIF
Power connector	5 V

SECURITY

SSL	version 3.0, 64 and 128 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 (VIP1710) <10,5W full load (VIP1720)

PHYSICAL

Dimensions	199 x 150 x 40 mm
Weight	0.5 kg
Noise	Silent, no moving parts

MODEL-SPECIFIC CONNECTORS

VIP1710 rear panel	
Video	1 x RCA for composite video 1 x mini DIN for S-video
Analog stereo	Left/right RCA stereo connectors
VIP1720 rear panel	
DVB-T	2 x DIN Jack for DVB-T input and loop through



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