



# VIP1910-9 & VIP1960-9

Flexible High Definition IP Set-tops



High Definition and Standard Definition Video Decoding

## Highlights Include:

- High Definition and Standard Definition television in MPEG-2, MPEG-4 (H.264)
- Optional Hard Disk Drive
- System-on-chip 450 DMIPS processor
- 5.1 digital audio
- HDMI connectivity with HDCP support
- Component video (Y Pb Pr) connectivity
- DVR functionality including time shift, recording and viewing separate programs and instant or scheduled recording
- Seamlessly combines TV channels in one channel table regardless of video format
- KreaTV™ Application Platform as the set-top software provides compatibility with other IP set-top models
- Multiple development environments available for operator-driven functionality and services
- May be used as the home network centerpiece, playing personal media files and showing picture slideshows on the TV set
- Supports feature-rich applications and graphics
- Pre-integrated with leading middleware and conditional access applications

For more information regarding any of these features contact your Motorola sales representative.

The Motorola VIP1900-9 series extends the possibilities for broadband television. Advanced video formats and decoding of High Definition television (HDTV) are supported in all models, whereas a built-in hard disk drive for PVR is available as an option.

The VIP1900-9 series reaches its full functionality thanks to the KreaTV Application Platform – the same set-top software platform used in previous generations of IP-STBs widely deployed among large telecom operators, making the different models compatible and possible to be installed in parallel. A single software platform to maintain and operate means huge savings in time and cost, and still you stay prepared for what the future may bring.

When selecting the VIP1900-9 series, you benefit from years of development, deployment experience and well documented reliability while you embrace the new features and possibilities that new technology brings.

**SPECIFICATION SHEET**

VIP1910-9 &amp; VIP1960-9

<b>TECHNICAL SPECIFICATIONS</b>		<b>Graphics</b>	
<b>Hardware</b>		Computer Graphics:	24 bits/pixel RGB
Microprocessor:	RISC processor with integrated TV video processing and MPEG decoder, performance 450 DMIPS, 1.2 GFLOPS	Resolution:	720x576 pixels (PAL) 720x480 pixels (NTSC) HD Gfx
Main Memory:	128 MB DRAM 256 MB DRAM (optional)	Video:	24 bits/pixel RGB
Video Memory:	32 MB DRAM 64 MB DRAM (optional)	Picture-in-Graphics	
Flash Memory:	Boot flash 4 MB	On Screen Display (OSD)	
Application Flash:	32 MB (optional)	Alpha blending	
Accessories:	SRCU, MRCU180, MKB22, USB120IR	Color keying	
<b>Streaming Video</b>		Graphics accelerator:	2D
MPEG-1 (SD):	800 kbits/s to 3 Mbits/s, CIF 352x288	Spatial/temporal deinterlacing using motion detection and estimation	
MPEG-2 (SD and HD):	Transport stream - PAT, PMT, video and audio streams, constant and variable bit rate, 2-25 Mbps, up to MP@HL 1080i@60 fps	Independent flicker filtering of graphics	
H.264 (SD and HD):	PAT, PMT, video and audio streams, up to 20 Mbps, up to HP@L4.1 (1080i@60 fps)	<b>Operating System</b>	
High Definition video:	1280x720@50 or 60 fps (progressive scan) 1920x1080@50 or 60 fps (interlaced scan)	LINUX®-based OS	
4:3 and 16:9 video format:	Format detection, scaling to letterbox, center cut-out and SCART signaling	<b>Front Panel Interfaces</b>	
<b>Video On Demand</b>		Status indication:	LED
Interactive Video On Demand (VOD) and Near Video On Demand (NVOD) Protocol RTSP		IR-receiver:	Standard
Verified compliance with leading video server suppliers		Smartcard reader:	ISO 7816-1/2/3
<b>Streaming Audio</b>		Display:	Alpha numeric (optional)
Audio Types:	MPEG (Layer 1, 2, 3), PCM, AC3, AAC	<b>Rear Panel Interfaces</b>	
<b>Security</b>		Ethernet:	1 x RJ45 10/100 Base-T
SSL:	version 3.0, 64 and 128 bits	Standard definition video:	SCART for RGB, S-video and composite out
PKI:	box login, encryption/decryption (Optional)	High definition video	HDMI with HDCP support, component video (Y Pb Pr)
Macrovision copy protection ver. 7.01 (Optional)		Auxiliary devices:	SCART (composite in/out and RGB loop through)
<b>DVR (VIP 1960 model)</b>		Analog stereo:	Left/right RCA stereo connectors
Hard disk drive:	160 GB (other sizes optional)	Digital 5.1 sound:	Optical and coaxial S/PDIF
Recording:	Time shift and scheduled recording	USB port:	Version 2.0
Recording formats:	MPEG-2, H.264	Main power:	Connector and switch
Trick play:	Rewind, fast forward, pause	<b>Electrical Requirements</b>	
		External power supply:	PSU 5.7V (VIP1910 model)
		Internal power supply:	110V-240V (VIP1960 model)
		Power consumption:	<7 W full load (VIP1910 model) <30 W full load (VIP1960 model, 160GB HDD)

**MOTOROLA**

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