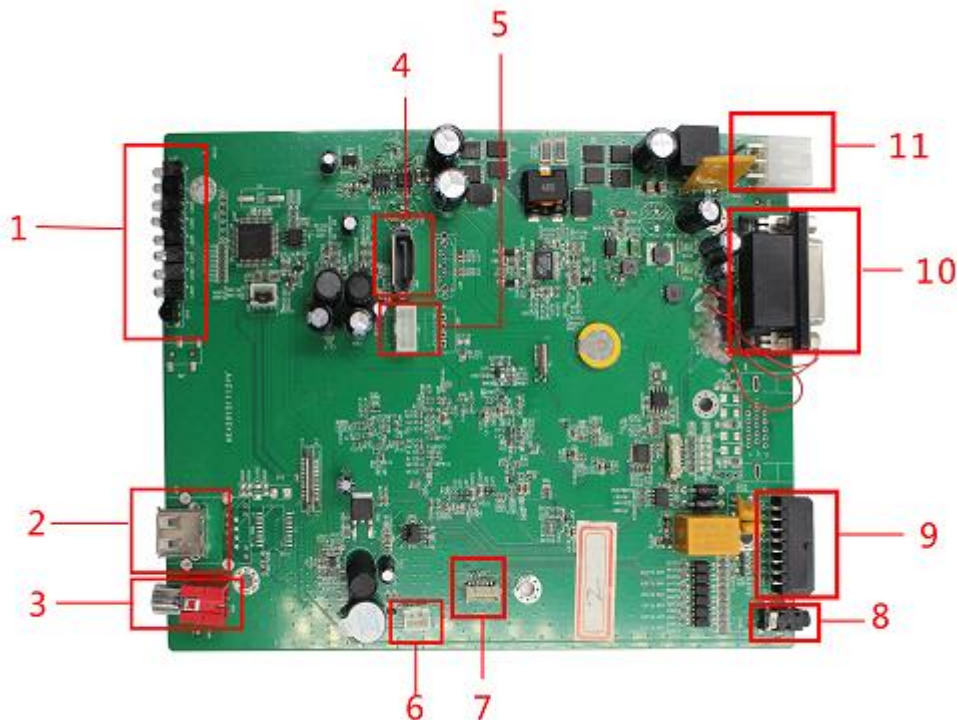## MVB7004L-LM Motherboard

1、Power Indicator   2、USB   3、video output   4、SATA   5、SATA power supply expansion element 6、Power   7、Network expansion element   8、GPS   9、IO   10、audio*video input,power output   11、power input

Feature：

- ➢ Special function：Mobile data、GPS data、wide voltage、mobile DVR player、SDK etc.
- ➢ Compression algorithm ideal：H.264 High Profile compression algorithm，30% decrease of stream due to advanced space-time filtering technology
- ➢ Playback quality：support 4ch 720P real-time recording,1ch 720P real-time playback.
- ➢ Main and Sub Stream：Main stream for local storage, ensure image quality; Sub-stream for real-time network transmission, easy to solve bandwidth bottleneck problem.
- ➢ Display： support TV output
- ➢ Operation interface：similar to Windows operating style
- ➢ Network：Powerful network services and perfect support (WEB, Client, SDK), easy to achieve interoperability.
- ➢ Differentiation: Boot screen free replacement, more than twenty languages, over 10 sets of GUI interface, ten kinds of remote control, available in dozens of button panel, which make our products different from others.
- ➢ Others：Perfect circuit protection, unique triple watchdog function, ensure that the equipment never crashes；With unique black box technology, the whole process can be monitored, which greatly reduces maintenance costs.

Specification：

	Model	MVB7004L-LM
system	Main processor	HI3520DV200
	Operating system	Embedded LINUX
	System resources	Simultaneous multi-channel real-time recording, playback, network operation， USB backup
interface	user interface	support 16-bit true color graphical menu interface and mouse operation
	preview screen	1/4
video	vdieo standards	PAL（625line，50f/s）；NTSC（525line，60f/s）
	vdieo compression	H.264(High Profile)
	display quality	monitor：D1
	playback quality	720P/D1
	encode capacity	4ch 720P
	decode capacity	1ch 720P
audio	audio compression	G.711A
	bidrectional talk	supported
Record&playback	record mode	manual>alarm>motion detection>timing
	local playback	Any channel playback simultaneously（1-4ch）
	search mode	Time/calendar/event/channel search
Storage&backup	space occupation	video：CIF 4~5G/ day*channel， D1 8~10G/ day*channel；audio：691.2M/ day*channel
	record storage	USB removable hard disk
	backup mode	Network backup、USB Burn
interface	video input	4ch
	video output	1ch RCA (1.0Vp-p,75Ω),one wire connection
	audio input	4ch
	audio output	1ch (200-3000mV,5K)
	alarm input	4ch high level, 2ch switch
	alarm output	1ch
	net interface	Expansion interface reserved
	PTZ control	One RS485、one RS232
	usb	One USB
Mobile interface &functions	GPIO	Support vehicle name、speed、turn light、vehicle door、brake、Steering Information and other signals input；support vehicle information OSD overlay、storage(optional) etc.
	GPS Module (alternative)	external GPS module，support GPS data overlay、timing etc.
	others	support boot up/shut down delay, boot up/shut down timing
complement	player	mobile exclusive player,Support google map,showing vehicle running track and data.

	SDK	Free SDK for second development
	Power supply	Wide voltage input 8V~32V，15% overvoltage protection，500MS 60V voltage surge
	External power supply	Support 4* 12V controllable power supply for external camera
others	Power consumption	<10W
	Working temperature	0℃-＋55℃
	Working humudity	10%－90%
	Atmospheric pressure	86kpa－106kpa
	Dimension	188mm * 148mm
	weight	165g