

S100 platform design request

hardware & system explanation

Type	Name	Description
CPU main CPU	Samsung S5PV210	CPU high quality Samsung CPU
frequency	1GMHZ	CPU main frequency
ROM	DDR II 512MB	standard ROM
hard disc	INAND FLASH 4GB (16G) INAND FLASH 4GB can be increased to 16G	Can make built in map while the hard disc is 4G
resolution	800*480	high resolution digital panel
color	65000 color	colorful display
OS	WINCE 6.0	Support multi-language, support oversea map
GPS receiver	frequency : 1575.42MHZ C/A CODE	
	protocol standard : NMEA-0183 V3.01	
	channel – 66 channel for searching satellite, 22 channel for tracking.	
	tracking sense: -164dBm	
	locate : 3m 2D RMS	
BT module	working frequency: 2.402GHZ-2.480GHZ ISM Band	
	MIC sense: —42dB	
touch panel	4 wires resistance (ready adaptor for capacity panel on PCB)	

S100 – platform design request – function Description

Main function	Basic function Description
system update	no need special tools, update all software such as UI / MCU by sd card only.
Video function set up	Lightness / contrast / color adjustment, Support style set up
Dual zone	DVD TV AUX Video output, 1 chanel CVBS video output, DVD TV AUX optional
	Dual zone audio harness output, stereo harness output, TV AUX IPOD RADIO DVD for optional; can also select Bass for main channel output
	Add dual zone control adaptor
Bass output	Separated output
iPod function	Belongs to main-board, auto display when connects to IPOD device
	Video playing (not support currently, but there is port ready for future)
	Support audio playing, name display , album , singer's information
DVD function	Car Spec DVD loader, Build in virtual disc (20 disc) changer
	support DVD、DVD-R、DVD±RW、HDCD、CD-R、CD±RW、MP3、MP4、Picture CD、VCD、WMA
AUX function	2 channel, support front & rear AUX input (alternative)
TV function	Support analog TV, support all TV system, Analog TV & digital TV – alternative.
	DVB-T ISDB CMMB Support digital TV, DVB-T ISDB CMMB, support 2 tuners
Radio	Build in car spec AM/FM tuner, support RDS, support local & long-distance
	99 station preset for AM, 99 station preset for FM
	support to scan different frequency station by area step
Bluetooth	support built in MIC, external MIC, standard adaptor, no MIC wire
	support BT 2.0, A2DP, support phone book, calling record, BT music
	support phone book, calling recall, phone book transferred
	phone book language is the same as the cell phone

POP	3-Zone POP
GPS	Build in high quality GPS module,gain satellite signal faster and stable
	support GPS signal query TMC
	GPS audio can be work together with front & rear speakers
Rear camera	1 channel video input, Enter camera menu once in reverse
	support device on when the car in reverse
External digital TV box	DVB-T, CMMB, ISDB, support external digital TV box - DVB-T, CMMB, ISDB, support double digital tuner. Build in / external is alternative.
External USB (2 channel, 1 A output electric current	USB1: USB2.0, USB1: USB2.0, for media playing, photos reading.
	support WMV, AVI, MPEG, MP3, MP4, RMVB (1080P), JPEG format, support name , album , singer's name
	USB2 – for 3G internet or WIFI input
SD 卡 SD card	SD 1 – for Navigation, support SD2.0 protocol standard SDHC, support 32 GB. Support map data
	support SD 2 – for media playing and photo reading.
	support WMV, AVI, MPEG, MP3, MP4, JPEG, support name , album , singer's name
Game	build in games
tooling	build in normal tools, calculator, calendar.
GOD	support
Video recording	can record DVD, AUX , TV
File magement	build in flash and external SD, USB for data transferred