

Circuit Description

Main Components

1000C-043BSC basic system include: Power Source, CPU, CPU's reset, crystalloid, SDRAM, NandFlash in working order, the whole unit can then operate (other peripherals function is yet to determine).

Function

Audio output: CPU through the I2S interface to connect to the audio D/A chip CS4344 (U5), the output of analog audio signal LM4853MM amplified stereo amplifier drive speakers or stereo headphones.

Bluetooth: when the navigator activate Bluetooth and Bluetooth mobile phone after the establishment of pairing, navigation systems will be identified as a Bluetooth mobile phone headset, users can use the phone's function via the navigation system. CPU connect with the Bluetooth module via serial ports to communicate, when taking/making a call via the navigator, CPU will activate the phone to mute its voice, to avoid interference call.

AV-in: this feature is primarily for use with reversing camera, the car rear camera images will be display on the navigation systems, especially at night when reversing, the infrared camera, can provide greater clarity than the rear-view mirror and wider angle view. When a PAL/NTSC standard video signal input, the navigator automatically switch to AV-in mode, equivalent to screen monitors.

LCD: 480*272 pixel, 65536 color (16 bit), SHARP LCD, touch screen.

SD card slot: SD connections include (3.3V), insert test switch, write protection test switch, card's data (4)

GPS: using ET-312 module, to communicate with CPU through serial port 1

TMC: using RET3570 module, communicate with CPU using serial port 1