深圳市艾尔赛科技有限公司
Shenzhen LC Technology Co., Ltd.

LCPI-T113
Specification

深圳市艾尔赛科技有限公司

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1. Overview

The LCPI-T113 is powered by AllWinner's T113 chip, an intelligent control and display processor for automotive and industrial products.Dual-core ARM CortexTM-A7 CPU

HiFi4 DSP
Memories
- Embedded with 128 MB DDR3, clock frequency up to 800 MHz
- Three SD/MMC host controller (SMHC) interfaces: SD3.0/SDIO3.0/eMMC5.0

Video Engine
- H.265/H.264/MPEG-1/MPEG-2/MPEG-4/JPEG/VC1/Xvid/Sorenson Spark decoding, up to 1080p@60fps
- JPEG/MJPEG encoding, up to 1080p@60fps

Video and Graphics
- Allwinner SmartColor2.0 post processing for an excellent display experience
- Supports de-interlacer (DI) up to 1080p@60fps
- Supports Graphic 2D (G2D) hardware accelerator including rotate, mixer, LBC decompression functions

Video Output
- RGB interface up to 1920 x 1080@60fps
- Dual link LVDS interface up to 1920 x 1080@60fps
- 4-lane MIPI DSI up to 1920 x 1200@60fps
- CVBS OUT interface, supporting NTSC and PAL format

Video Input
- 8-bit digital camera interface
- CVBS IN interface, supporting NTSC and PAL format

Analog Audio Codec
- 2 DACs and 3 ADCs
- Analog audio interfaces: HPOUTL/R, MICIN3P/N, LINEINL/R, FMINL/R
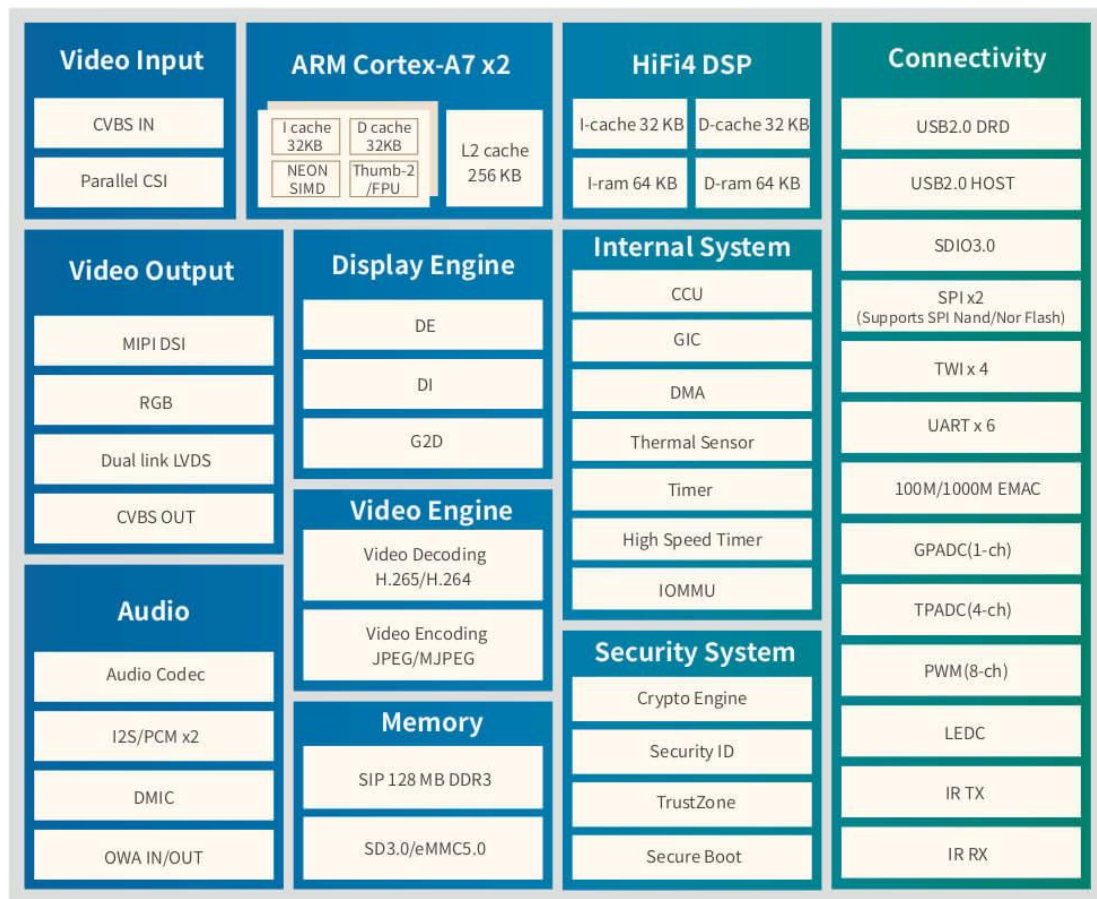
Two I2S/PCM external interfaces (I2S1, I2S2)
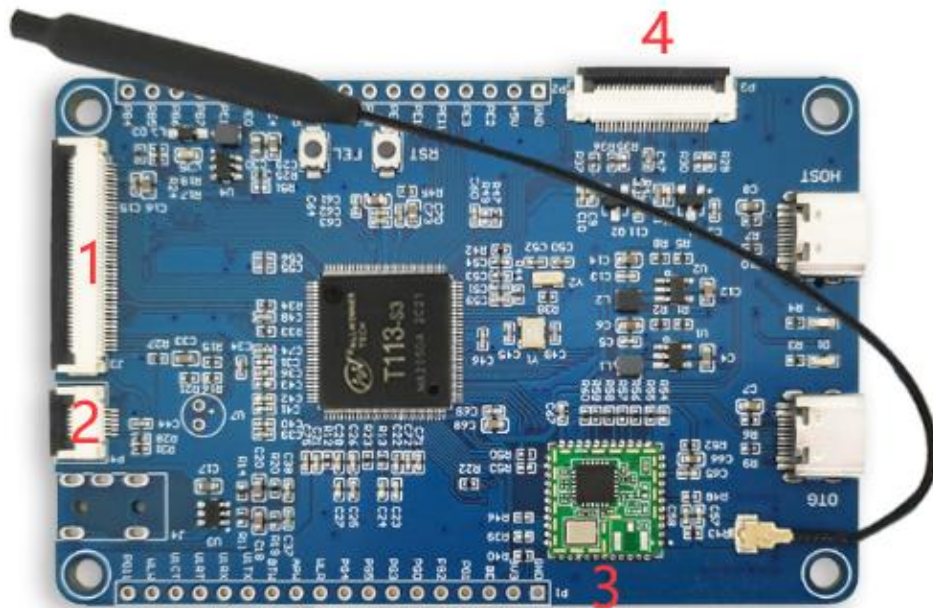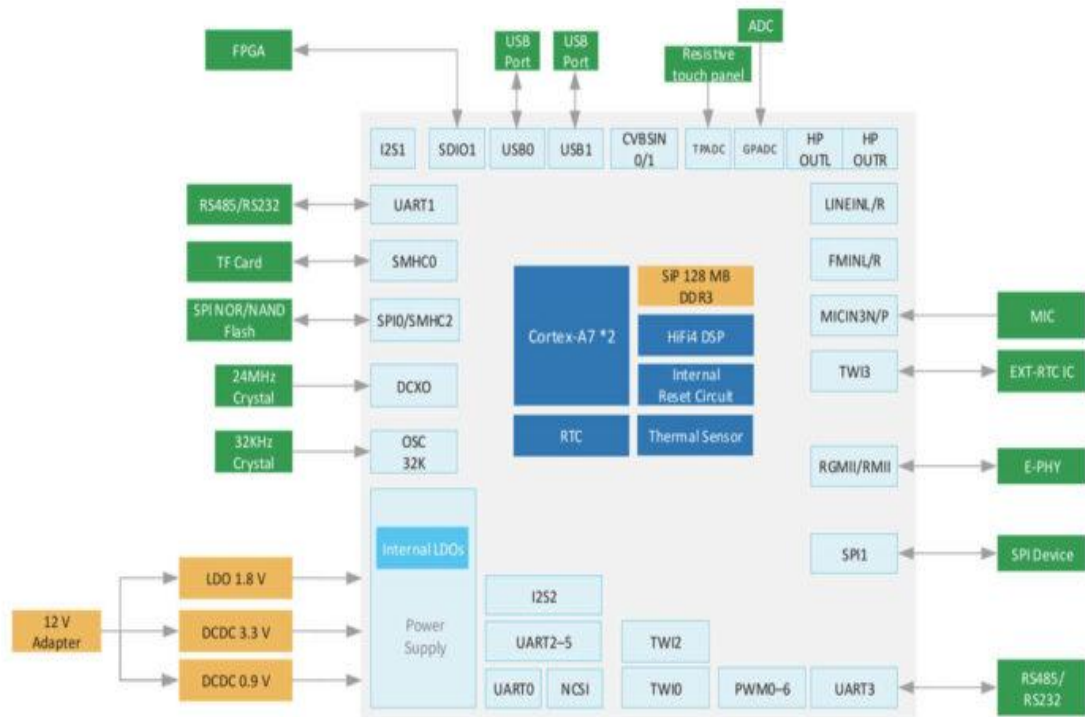Maximum 8 digital PDM microphones (DMIC)

2. Introduced the hardware and instructions

Board size：85*55mm

Weight：20g

1, 40pin 2.54mm 800*480 LCD interface
2, 6pin 2.54mm touch screen interface
3, RTL8189 WIFI module
4, 24pin 2.54mm camera interface