SOLUTION BRIEF

The Application of SigmaStar SSD22X Scheme in the AIOT Market

SigmaStar

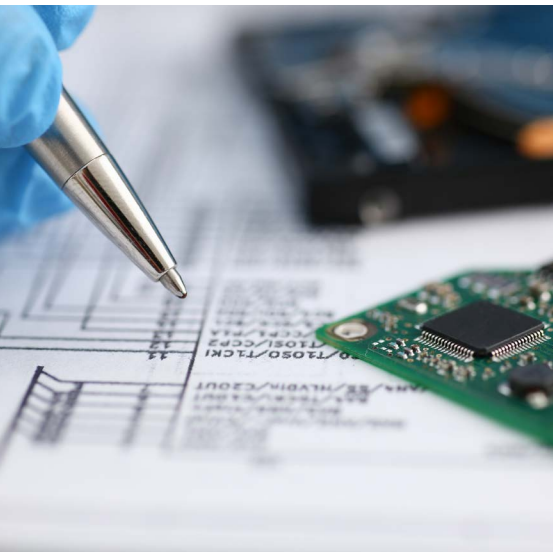
ARM IP

+ Cortex-A

OVERVIEW & GOAL

Under the general trend of digital transformation, AIoT is infiltrating into all walks of life in the form of general-purpose technology. As a result, there are more and more downstream application scenarios and the AI long-tail market has huge potential.

SigmaStar has rich experience in the entire SoC design process, adheres to independent research and development of major IPs, and has leading advantages in fields such as image signal processing (ISP) and audio video encoding and decoding. We actively invest in chip research and development in new fields including AI. As part of the Arm Partner Program and development community, we hope to help more companies and developers around the world improve development efficiency.



APPLICATION AREA

- Industrial
- IoT
- Hardware Provider
- Automotive
- Smart Homes
- Healthcare
- Artificial Intelligence
- Security
- Smart Cities

CHALLENGE

The current challenges and development pain points faced by the AIoT market include the challenges in macro environment, industry standards, supply chain, and network security (data security). At the same time, the engineering implementation of AIoT under fragmented demand remains the most realistic problem currently facing AIoT enterprises. The SSD22X series helps solve the above problems.

SOLUTION AND BENEFITS

The SSD22X series is widely used in the AIOT field with its advantages of high performance, high cost-effectiveness, and low power consumption, providing various solutions. SSD222/222D/222Q is a single chip embedded CPU with screen display and camera functions. It adopts the Arm Cortex-A7 dual-core processor, with a main frequency of 1GHz and a high-performance ISP core, with 64MB DDR2/128MB DDR3/256MB DDR3 built-in.

It also includes a built-in 2D graphics engine and ethernet driver, supports a TTL screen display driver interface and integrates with rich peripheral interfaces, such as SAR ADC, audio ADC/DAC, UART, PWM, GPIO, and SPI. It supports Linux on embedded systems system, various GUI graphical development interface tools, such as Flythings, LittleVGL, AWTK, TD-UI, and mini GUI, and can also support Free RTOS system to develop products with LittleVGL graphical interface.

The SSD22X series is widely used in smart home, industrial control, portable equipment, audio, video, and home appliances, IoT, and other fields, including building intercom, door security, face lock, and business display.

FURTHER RESOURCES

- SSD222 Specification
- SSD222D Specification
- SSD222Q Specification
- SSD222 SDK
- SSD222D SDK
- SSD222Q SDK
- SSD222 Development Resources
- SSD222D Development Resources
- SSD222Q Development Resources