

Anchor5 is a system-on-module(SoM)

built in a 32-bit RISC application processor that is based on an quad-core ARM® quad Cortex®-A9 cores architecture with max 1.4GHz speed, containing DRAM provided 6.4 GB/s memory bandwidth with flash memory, camera and display interfaces displayed Full HD, a full complement of digital I/O and analog inputs, and world class wireless connectivity with IEEE802.11a/b/g/n/ac and Bluetooth(Classic+BLE) inside a ultra compact package that is just 38x45mm.

The scalable processing power of the Anchor5 makes it ideally suited for video/image processing tasks and provides the best 3D graphics performance with wide range of APIs, such as OpenGL ES1.1, 2.0.

The native dual display supports Full HD resolution with Superior 3D performance of LCD display and progressive Full HDTV throughout HDMI, simultaneously.

The hardware based Secure Element works with the ARM® TrustZone® and Trusted Execution Environment (TEE) to provide enhanced end-to-end security.

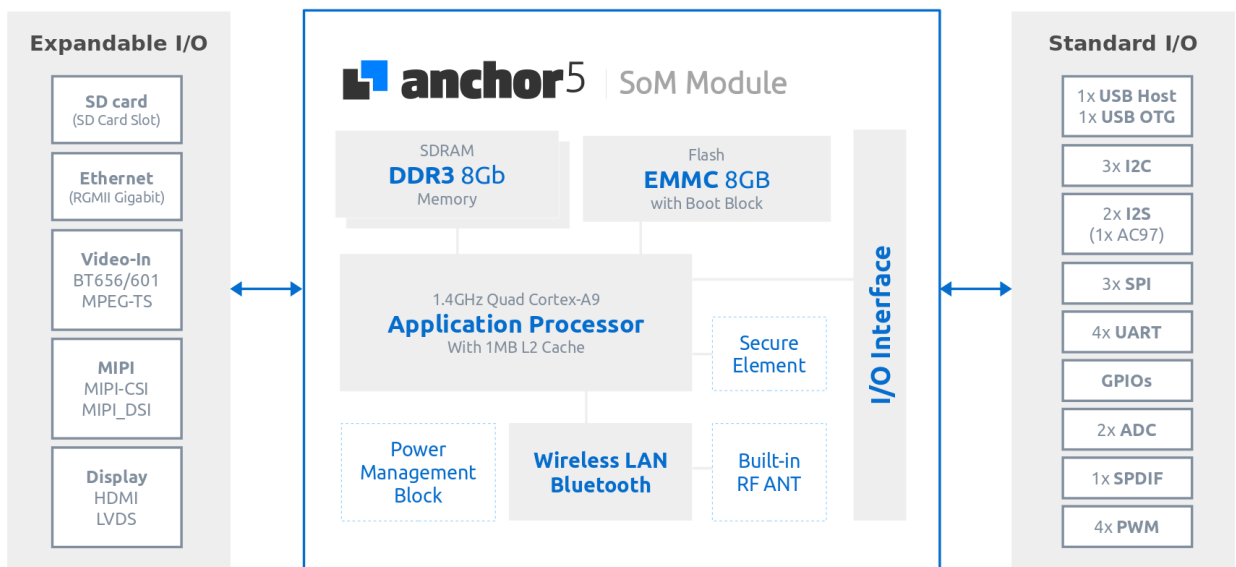
with excellent performance and most popular connectivity, like WiFi and Bluetooth, Anchor5 is the perfect choice for home automation and industrial equipment, and even IoT devices, while providing effective price / performance capability.

For more information, please visit www.dignsys.com



Anchor5 Boardkit

This Kit connected Anchor5 SoM provides all of needed interfaces required for popular functionality with peripheral I/O interface that has a gigabit Ethernet MAC, USB Host and USB OTG connector, LCD interface, Audio DAC with phone jack and expansion I/O interface including I2C, I2S, UART, SPI, PWM, ADC, ... etc.



System

CPU Architecture 32bit RISC based Cortex-A9 Quad Core @ 1.4GHz

Memory Storage upto 8Gb(2x 256Mx16bit) DDR3 Built in 8GBytes eMMC

Connectivity

WiFi IEEE 802.11a/b/g/n/ac dual-band radio with external ANT connector

Bluetooth Network Bluetooth 4.1 V4.0 + EDR and BLE Gigabit Ethernet(RGMII) Compliance to IEEE 802.3az-2010, RGMII specification version 2.6 Full/Half-duplex operation

Graphics & Display

Graphics Supports Dual Display, Up to 1920x1080 @60hz
3 Layers Graphics Plane
OpenGL ES 1.0/2.0, OpenVG 1.1 hardware accelerator GPU for 2D/3D

Codec Multi Format Encoder/Decoder H.264/263, MPEG-1/2 ... etc.

HDMI HDMI 1.4a, HDCP 1.4 Compliant upto 1080p @50Hz/59.94Hz/60Hz

LVDS 5 LVDS output channels upto 1400x1050 @60fps

MIPI-DSI Complies to MIPI DSI Standard Specification V1.01r11 MIPI-DSI 4 data lanes up to WUXGA (1920x1080)

Audio

I2S 2x I2S Controller for Voice Recognition 16bit/24bit Master & Slave Mode

SPDIF Supports linear PCM up to 24-bit per sample
Supports Non-linear PCM formats such as AC3, MPEG1 and MPEG2

AC97 Independent channels for stereo PCM In/Out, mono MIC In

Security IP

Secure Secure Boot 64KB ROM/RAM (programmable e-fuse)
ARM Trustzone
Hardware Crypto Accelerator (DES/TDES, AES, SHA-1, MD5/PRNG)

Video-In

MIPI-CSI Compliant MIPI CSI2 Standard V1.01 D-phy standard specification V1.0 MIPI-CSI 4 data lanes

Digital Supports 8bit BT656, 601 format for Digital Camera
Max 1280x800 @60fps Resolution

MPEG-TS Support YUV422 of 8-bits
Supports Parallel MPEG-TS Interface
Supports Hardwired MPEG2-TS parser for Set-top and IPTV

Peripheral I/O Interface

Standard I/O 1x USB Host
1x USB OTG
3x I2C
2x I2S
3x SPI
4x UART
1x SDIO(4bit) for SD Memory Card Slot
4x PWM
3x ADC
1x SPDIF
GPIOs
3x60pin Board to Board Connector

Connector

Operating Systems

OS Linux, Android, Tizen

Boot Type eMMC, SD Card, USB, UART and SPI
3x60pin Board to Board Connector

Power

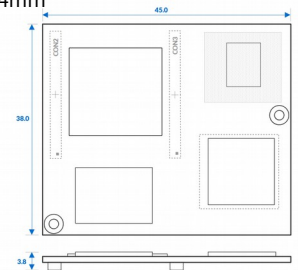
Input Connector 5V, 2A DC
USB C-type, 8 or 16pin

Dimension & Picture

Dimension 38 x 45 x 4mm



anchor5 | SoM Module



Anchor3 Test Kit consist of a System-on-Module and a Base Board. Anchor5 Baseboard is connected to the Anchor5 System-on-Module through 3 x 60 pin board-to-board connectors. This Board Kit provides all of required interfaces for popular functionality that has a gigabit Ethernet MAC, USB Host and OTG, HDMI, MIPI-DSI/CSI, audio, SD card and a large number of signals with expansion I/O interfaces including Standard I/O. You can evaluate, test and use most of the functions for your products with technical support.

For more information, please visit www.dignsys.com

