<Product Brief - SDT-A7X2-M4>

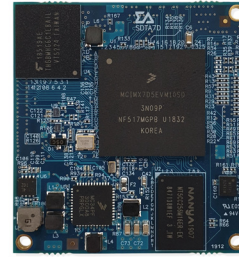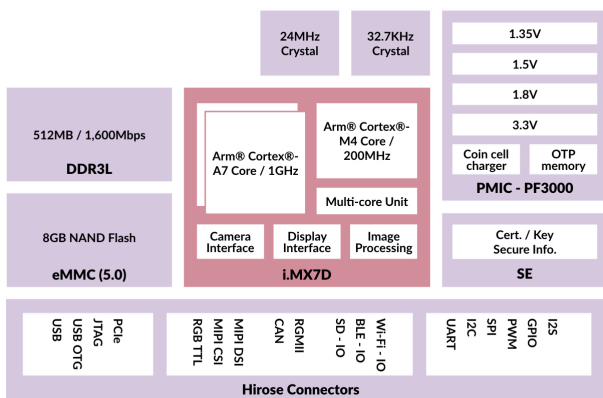**SIGMA DELTA TECHNOLOGIES**

SDT-A7X2-M4
Cortex-A7 Dual Core System-on-Module (SOM)

■ Product Description

Gateway SOM based on Arm® Cortex®-A7 dual core and another Cortex®-M4 core, where the former one is for high-performance processing and the latter one is for real-time application performance. It also provides 512MB DDR3L-1600 DRAM and 8GB eMMC NAND Flash.

With Secure Element (SE), SDT-A7X2-M4 ensures high security. The modules supports Arm Mbed Linux OS and Samsung Tizen, and can be directly connected to Arm Pelion and Samsung SmartThings.

■ SDT Module Family Concept

All SDT modules are manufactured in the same Pin Pad format. In addition, the functions of each pad including software interface pins for debugging are also uniformly structured so that you won't require additional hardware or software when you want to use another SDT module. In other words, you can simply interchange other SDT modules to your former design to instantly apply different communication.

■ Specifications

CPU - i.MX7D
– High-performance Arm® Cortex®-A7 dual core
– Real-time processing Arm® Cortex®-M4 sub core

Memory
– 512MB DDR3L (1600Mbps)
– 8GB eMMC (5.0) flash memory

Low Power Consumption PMIC - PF3000
– 1V35, 1V5, 1V8, 3V3 output
– Coin cell charger
– OTP memory

Secure Element (SE)
– For Key & Certification
– Includes every Secure Information

OS Support
– Arm Mbed Linux OS
– Samsung Tizen

Serial Peripherals
– UART, SPI, I2C, PWM, ADC, GPIO
– Dual CAN
– RGMII for 1Gbps Ethernet
– USB Host, USB OTG
– PCIe, SD I/O
– MIPI CSI for camera
– MIPI DSI for display

Environmental
– 45 x 42 x 4.5mm (W x L x H) dimensions
– 0~85°C operating temperature