ATSAMA5D27-SOM1

SOM with 128MB RAM

Manufacturer:	Microchip Technology, Inc
Package/Case:	40mmx38mmx0.8mm
Product Type:	Embedded Processors & Controllers
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The SAMA5D2-SOM1 is a small single-sided System-On-Module (SOM) based on the high-performance 32-bit Arm® Cortex®-A5 processor-based MPU SAMA5D27 running up to 500 MHz. The SAMA5D27 SOM1 is built on a common set of proven Microchip components to reduce time to market by simplifying hardware design and software development. The SOM also simplifies design rules of the main application board, reducing overall PCB complexity and cost. The SAMA5D27-SOM1 is delivered with a free Linux distribution and bare metal C code examples.

Key Features

ARM Cortex-A5 Processor-based SAMA5D27 MPU

1Gbit (128MB) DDR2 SDRAM

On-Board Power Management Unit (MIC2800-G1JJYML)

2Kb Serial EEPROM with EUI-48™ Node Identity (24AA02E48T-I/OT)

64Mb Serial Quad I/O Flash Memory (SST26VF064BT-104I/MF)

10Base-T/100Base-TX Ethernet PHY (KSZ8081RNAIA)

40 x 38mm Module, 0.8mm pitch, solderable by hand

103 I/Os

Up to 6 Tamper Pins

One USB Device, one USB Host and one HSIC Interface

Shutdown and Reset Control Pins

Independent Power Supplies Available for Camera Sensor, for SD Card and for Backup Voltage Domains

Integrated crystals, internal voltage regulators

Multiple interfaces and I/Os for easy application development