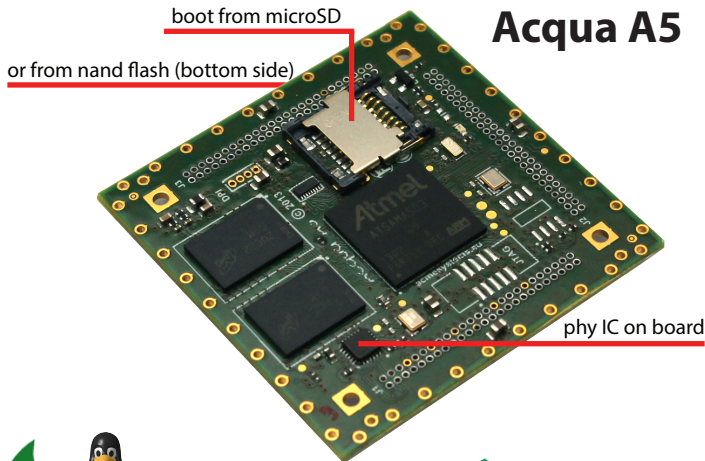


# Acqua A5

## Low cost System on Module based on Atmel SAMA5D31 MPU

Acqua A5 is a low cost System-on-Module (SoM) thought of to drastically reduce the development time needed to design a low-power and low-EMI Linux Embedded device. The more complex hardware like CPU, RAM, Ethernet, power and EMI components are integrated on a single component in just 53x53 mm (2.08x2.08 inch) using a complex PCB with 10 layers permitting hardware designers to create their carrier board on simple and cheap 2 layers PCBs.

### Acqua A5



### Key features

- Atmel SAMA5D31 Cortex-A5 CPU @ 536Mhz
- 256MB or 512MB of 32bit DDR2 RAM
- 10/100 Mbit Ethernet interface
- Boot from microSD (2-32GB) or NAND flash (4GB)
- Low power consumption, low EMI
- Temp. range: -20 +70 °C
- Size: 53 x 53 mm (2.08x2.08 inch)
- Weight: 14g
- RoHS compliant
- Three 50-pin connectors pitch 1.27 mm
- Single power supply at 3.3 Volt
- Optional metal shield for harsh environment

### Exposed signals

- 10/100 Ethernet RX/TX differential lines
- RGB interface @ 24 bit for LCD TFT panels
- Touch panel lines
- I2C bus
- GPIO
- Timer counter lines
- USART ports
- 3 USB Host, 1 USB device
- Memory Card Interface (MCI) lines
- ITU-R BT 601/656 image sensor I/F
- A/D converter 12 ch @ 12 bit
- 16 bit PWM (4 ch)
- SSC-I2S port

### Berta A5

1.27 mm to 2.54mm  
breakout board

### ACME SYSTEMS SRL

Linux Embedded boards & modules

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