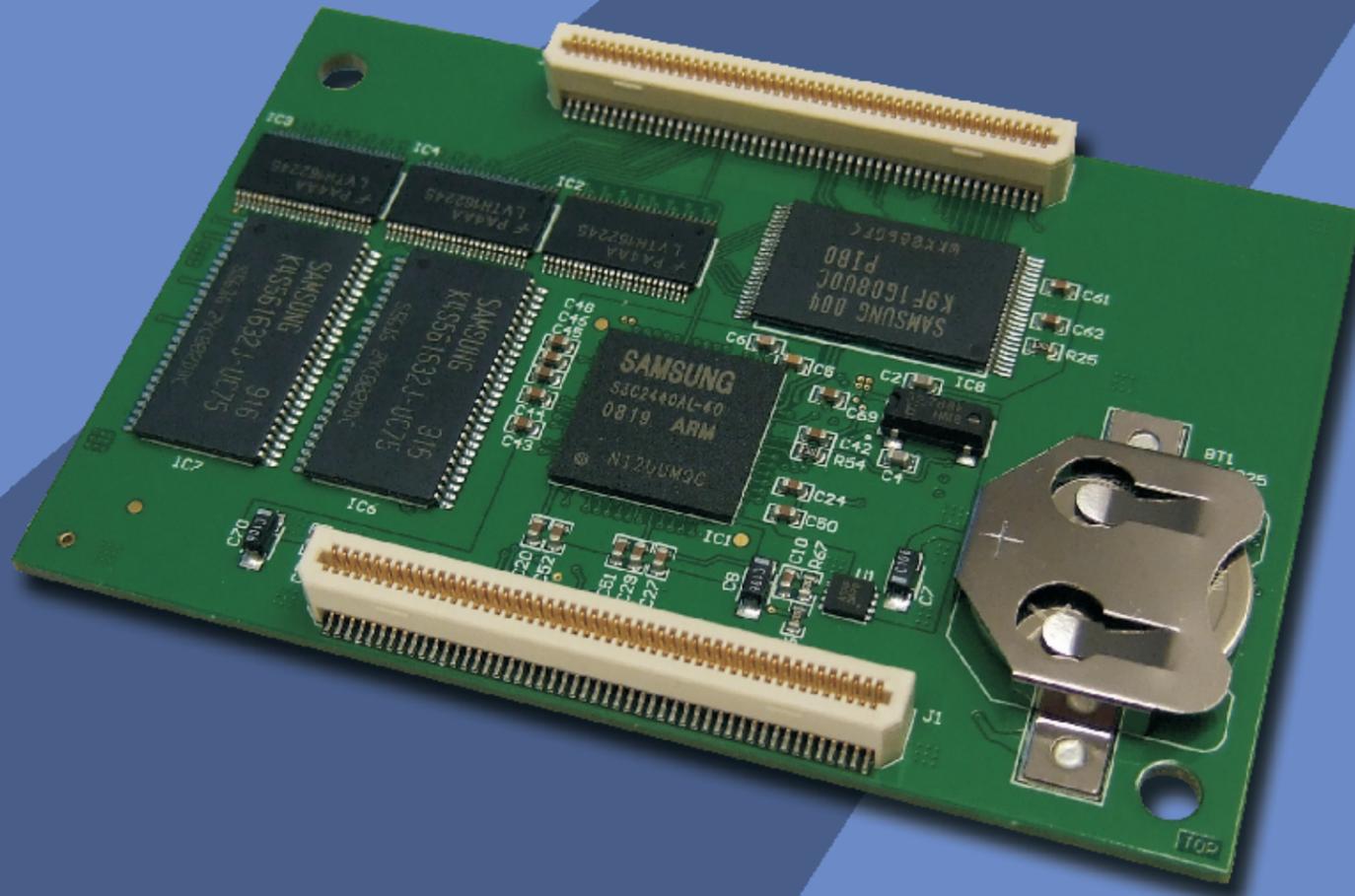# MT-COM

Single Board Computer

MT-COM

Single Board Computer mit Samsung S3C2440 ARM9 CPU

A fast, cost-effective and flexible implementation of your hardware application is now available with the compact and efficient Single Board Computer MT - COM.

The MT-COM constitutes the core of your hardware and ensures this hardware is implemented rapidly in conjunction with a base board that you have built, all of which is guaranteed to be developed in the shortest possible time.

This is primarily possible because you can create your software using our evaluation board and Windows CE or Linux operating system, before your hardware is even ready.

In addition, the basic design (schematic) which is at your disposal means a base board suited to your requirements can be developed in a short time.

Thanks to its quick 400 MHz ARM9 processor, ist 64 or 128 MB SDRAM memory and its 128-512 MB flash memory, the MT-COM provides more than satisfactory resources to run a multitude of applications.

In particular, using the Windows CE or Linux operating system decidedly simplifies and reduces the time required to develop your software, as low level programming is no longer necessary and therefore the usual application programming under Windows or Linux is possible.

Technical data:

- Samsung S3C2440 with ARM920T core,16 KB I-Cache/16 KB D-Cache and MMU
- 64 or 128 MByte SDRAM with 32 bit data bus
- 128 to 512 MByte NAND flash with 8 bit interface
- 2 x 100 pin narrow pitch connector
- TFT interface 24 bit RGB 1, 2, 4, 8,16, 24 bits per pixel
- STN interface with 1, 4, 16 levels of gray oder 256, 4096 colors
- 8/16 Bit data und 24 bit address memory interface
- USB 1.1 device
- USB 1.1 host
- SD/MMC-Card or SDIO interface
- I²S audio interface
- Serial (1x with RTS/CTS) up to 115,2 Kbps and TTL level
- I²C-interface
- 8-Bit camera interface according ITU-R BT. 601/656 with up to 4096 x 4096 pixel
- 1 x coin cell holder for CR20XX
- 4 x red SMD LEDs
- Voltage supply: +3.3 VDC / ± 5%
- Operating temperature: -10°C to 85°C
- Dimensions (l x w x h): 99 mm x 59 mm x 9 mm
- Weight: approx. 31 g

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TRONIC
Design and Technology GmbH

Samsung
S3C2440
ARM920T

64 / 128 MByte
SDRAM

Buffered data bus

128 - 512 MByte
NAND flash

JTAG interface
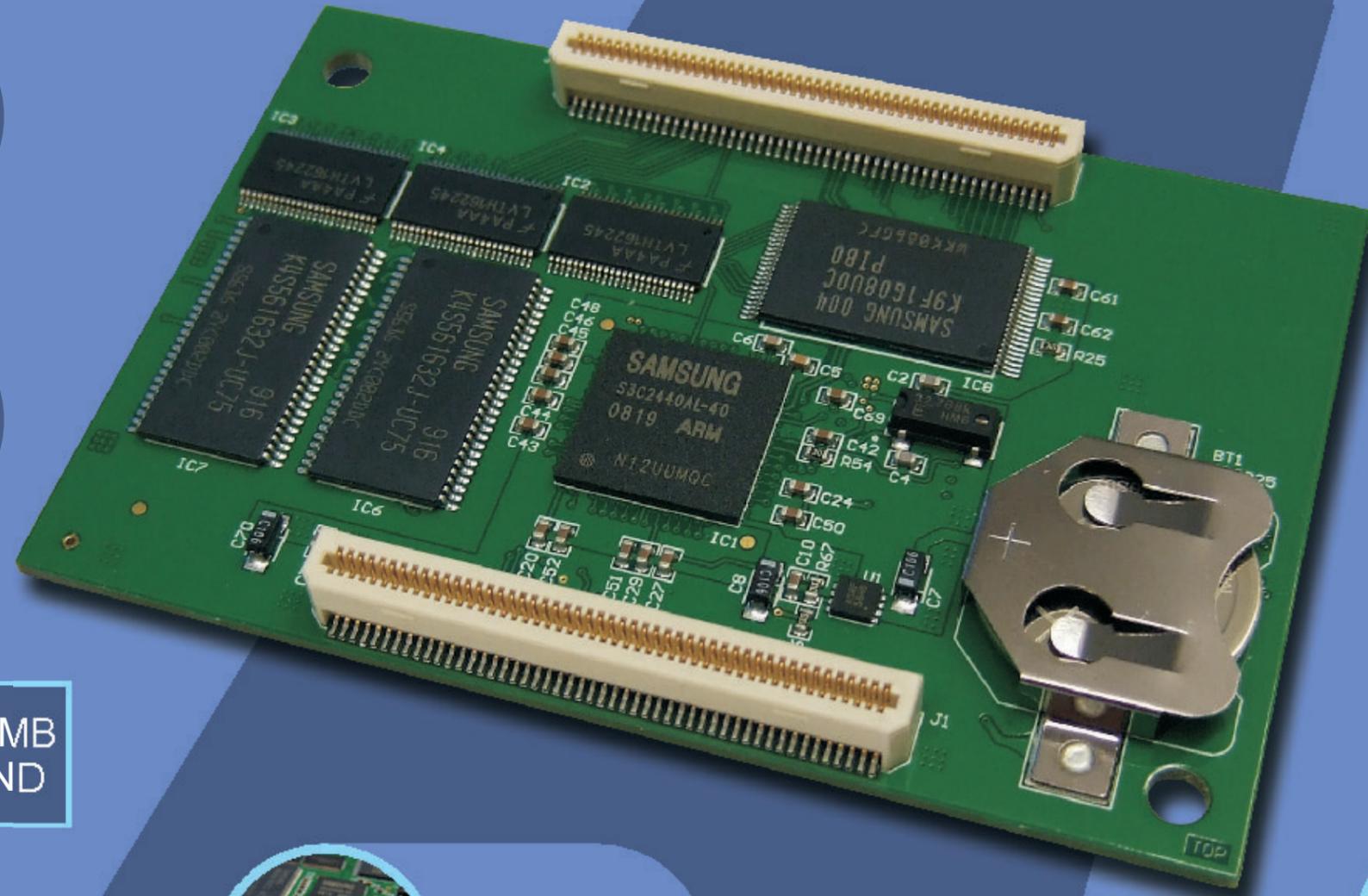
S3C2440
ARM9 CPU
400 MHz

128 MB
NAND

LCD USB EMI UART IIS SD IIC

64 MB
SDRAM

MT-COM Interface
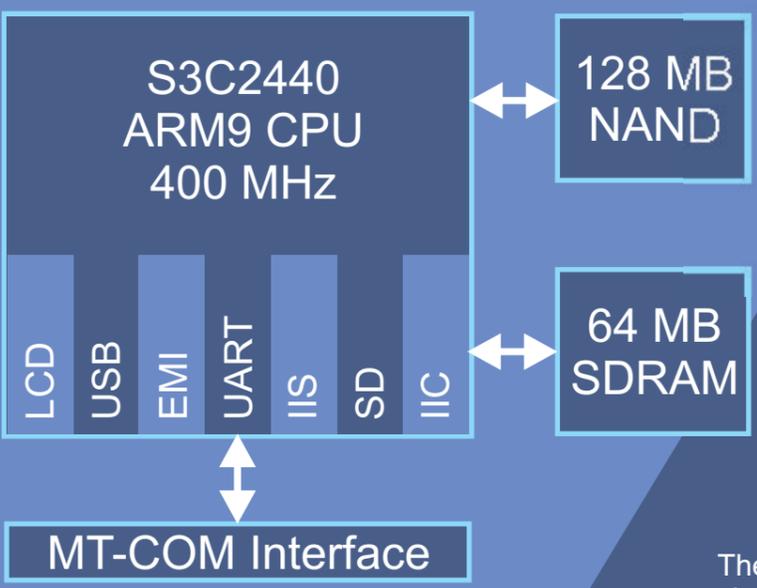
2 x 100 Pin
narrow pitch
connector

Battery-buffered
RTC

4 status LEDs

The MT-COM offers with each of its two 100-pin connectors a simple and reliable connection to the respective base board.

Thus the 200 pins grant access to the connectivity of the microcontroller, in particular to a 16-bit wide data bus with 24 address lines.