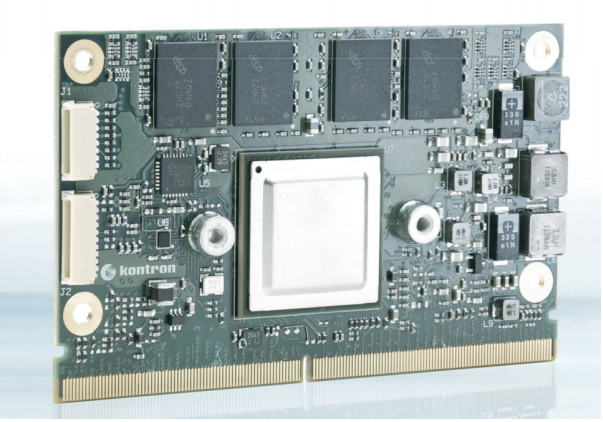
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ROM-51002 SMARC-sA3874i



Texas Instruments AM3874 ARM technology

Gigabit Ethernet, USB 2.0

Scalable ultra low power ARM building block

3D graphics acceleration

HD video processing

LVDS & HDMI outputs and Camera input

Camera input 10bit parallel interface

1x PCIe, I2C, I2S, 4x UART, 2x CAN; GPIO Battery and System Management; SATA

The ULP-COM® (Ultra Low Power – Computer on Module) sA3874i is a versatile small form factor Computer-On-Module that requires low power and provides high performance at low cost. The module connector has 314 edge fingers that mate with a low profile 314-pin 0.5mm pitch right angle connector (this connector is sometimes identified as an 321 pin connector, but 7 pins are lost to the key). Featuring Texas Instruments ARM Cortex A8 microprocessor, the ULP-COM sA3874i offers LVDS, Parallel LCD,
HDMI Display, Gigabit Ethernet, PCIe, SATA, USB, USB OTG, Camera support and graphics functions in a cost effective, low power, miniature package. The ULP-COM sA3874i thin and robust design makes it an ideal building block for reliable system design.

Specifications

SOM Type:
Microcontroller SODIMM Modules

Processor

Processor:
TI Sitara AM3874
Clock Speed:
800 MHz
Real Time Clock:
Processor Misc.:
Texas Instruments Sitara AM3874 Single core Cortex A8 Up to 800MHz

Memory

BIOS/ Bootloader:

Boot Configuration Table

Primary Flash:

up to 32 GB NAND flash onboard

Primary I/O

GPIO:

12x GPIO

SDIO:

4

Disk Interface:

SD/MMC and SATA

Video Out:

LCD

LVDS and HDMI

SPI:

2x SPI

Audio:

Audio output

Ethernet:

Atheros PHY (AR8031) Gigabit Ethernet

USB:

2x USB 2.0

Serial Ports:

4x COM

I2C:

4x I2C

Watchdog:

Secondary I/O

CAN:

2x CAN

LPT Port:

Keypad:

PS/2:

Secondary I/O Misc.:

Parallel Camera Interface

Analog on

A/D:

D/A:

Dimensions

Dimensions:

3.23 × 2.363 in

Form Factor:

314-pin SODIMM

Power Requirements

Power Misc.:

3V to 5.25V - Operates directly from single level Lithium Ion cells, or fi xed 3.3V or 5V power supplies

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C
Upper Operating Humidity:
90%
Environmental Misc.:
The ULP-COM sA3874i module operates from 0°C to 60°C air temperature, with a proper heat sink arrangement.

Pricing
ROM-51002-281-R
51002-2000-08-1, SMARC, AM3874, 2GB DDR3, SATA, 2xUSB2, GbE, 2xCAN, I2C, I2S, HDMI
$232.00
Order:
0
Parent Product:
ROM-51002
Base Product:
ROM-51002
ROM-51002-181-R
51002-1000-08-1, SMARC, AM3874, 1GB DDR3, SATA, 2xUSB2, GbE, 2xCAN, I2C, I2S, HDMI
$190.00
Order:
0
Parent Product:
ROM-51002
Base Product:
ROM-51002
Non-Stock NCNR:
0

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