

ROM-51006 SMARC-sXQU



Intel® Quark™

up to 1GB DDR3L memory down (ECC optional with X1021)

2x PCIe, 2x serial, SDIO

1x LAN (10/100MBit) + 1 LAN (10/100, via AFB signals)

Industrial grade temperature

SD Card Support

The SMARC-sXBTi Computer-on-Modules have been developed in compliance with the SGET specification and equipped with Intel® Quark™ X1000 series processors, as well as up to 1 GB DDR3 RAM, with the option of ECC. They support the extended temperature range from -40 °C to +85 °C and measure only 82 mm x 50 mm. Other interfaces include 2x 10/100 MBit Ethernet LAN (1x via AFB signals), 1x USB 2.0 Client und 2x USB 2.0 Host. Customer-specific upgrades can be implemented via SDIO and 2x PCIe and 2x serial. The power supply is only 3V- 5.25 V.

Specifications

SOM Type:

Microcontroller SODIMM Modules

Processor
Processor:

Intel Quark

Clock Speed:	
400 MHz	
Real Time Clock:	
Processor Misc.:	
Intel Quark SOC	
x1000: Single Core 400MHz/2.2W	
x1010: Single Core 400MHz/2.2W	
x1021: Single Core 400MHz/2.2W	
Memory	
BIOS/Bootloader:	
Grub	
Primary Flash:	
SD Card Support	
Primary I/O	
GPIO:	
12x GPIO	
SDIO:	
1x SDIO	
Disk Interface:	
SD Card Support	
Video Out:	
n/a	
SPI:	
2x SPI	
Audio:	
n/a	
Ethernet:	
2x 10/100 Ethernet	
USB:	
2x USB 2.0 & 1x USB client	
Serial Ports:	
2x COM	
I2C:	
4x I2C Ports	
Watchdog:	
Secondary I/O	
LEDs	
Keypad:	
PS/2:	
Expansion	
Bus Misc.:	
SMARC	
2x PCIe x1 lanes	
Analog	
ADC:	

D/A:

Dimensions

3.23 × 1.97 in

Form Factor:

314-pin SODIMM

Dimensions Misc.:

Module Dimension » 50mm x 82mm

Power Requirements

3V - 5.25V Operates directly from single level Lithium Ion cells or fixed 3.3V or 5V power supplies

Typical power draw ~2W

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

93%

Environmental Misc.:

0°C to +60°C operating, -40°C to +85°C non-operating -40°C to +85°C operating, -40°C to +85°C non-operating (with X1021 only)

Pricing

ROM-51006-041-R

51006-0200-04-1, SMARC-sXQU, X1000, 256MB DDR3, 2xCOM, 2xUSB2, 2xLAN, I2C, SPI (0~60C)

\$96.00

Order:

0

Parent Product:

ROM-51006

Base Product:

ROM-51006

ROM-51006-042-R

51006-0500-04-2, SMARC-sXQU, X1010, 512MB DDR3 ECC, 2xCOM, 2xUSB2, 2xLAN, I2C, SPI (0~60C)

\$100.00

Order:

0

Parent Product:

ROM-51006

Base Product:

ROM-51006

ROM-51006-044-R

51006-1000-04-4, SMARC-sXQUi, X1021, 1GB DDR3 ECC, 2xCOM, 2xUSB2, 2xLAN, I2C, SPI (-40~85C)

\$130.00

Order:

0

Parent Product:

ROM-51006

Base Product:

ROM-51006

Non-Stock NCNR:

