# Application Carrier Board for x86 based SMARC 2.1 Modules

# conga-SMC1/SMARC-x86



- Compact sized SMARC Carrier Board
- Support of x86 based SMARC 2.1 Modules
- Ready-to-use Carrier Board
- Platform for rapid customizing
- Support of fast implementation and improved Time-To-Market

Formfactor	Fo	rmf	ac	tor
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3.5" Carrier Board

#### **Board Variant**

Application Carrier Board for x86 based SMARC 2.1 modules

# Internal Connectors and Features

1x LVDS 18/24bit single/dual channel LVDS

2x optional eDP/DSI (dependent on processor platform)

1x LCD backlight (5V and 12V)

1x SATA Gen3 (support of SATADOM VCC PIN 7 and PIN 8)

1x SATA Power (+5V, +12V)

1x mPCle full/half size (support for PCle Gen3 and USB 2.0)

1x M.2 Type E 2230 (PCle Gen3, USB 2.0)

1x M.2 Type B 3042/2242/2280 (2x PCle Gen 3, USB 2.0)

2x MIPI-CSI

1x Micro SIM (muxed between M.2 Type B and mini PCle)

2x RS 232/422/485 (COM 0 and COM 2 with handshake)

2x RS232 (COM 1 and COM3 TX/RX only)

2x CAN

1x Micro SD card

1x GPIO connector (up to 7 GPIO)

1x Feature connector (Batlow, Charging, GbE SDP, WD)

1x Buttons and LEDs (Power, Reset, Sleep, LID, Power LED, SATA LED)

1x Onboard power button

1x Onboard power state LED

1x SPI/eSPI header

1x I2C header

1x DMIC and analog front panel audio output

1x 12V FAN connector (4-pin)

1x RTC backup (CR2032)

1x Internal DC-In

#### **External Connectors**

2x GbE RJ45

2x USB 2.0 2x USB 3.0/3.1

1x HDMI

1x DP++

1x Audio Jack 4-pin with HDA audio ALC888S-VD

1x External DC-In (12-24V)

#### **Power Specification**

External and internal DC-In (12-24V Wide Range Carrier Board Supply )

#### Operating Temperature

Operating Temp.: 0°C ... +60°C

Operating Hum.: 10% - 90% r. H. non cond.

Storage Temp.: -20°C ... +70°C
Storage Hum.: 5% - 95% r. H. non cond.

### Humidity

Size

146 x 102 mm (approx. 5.75" x 4.02")

#### Order Information

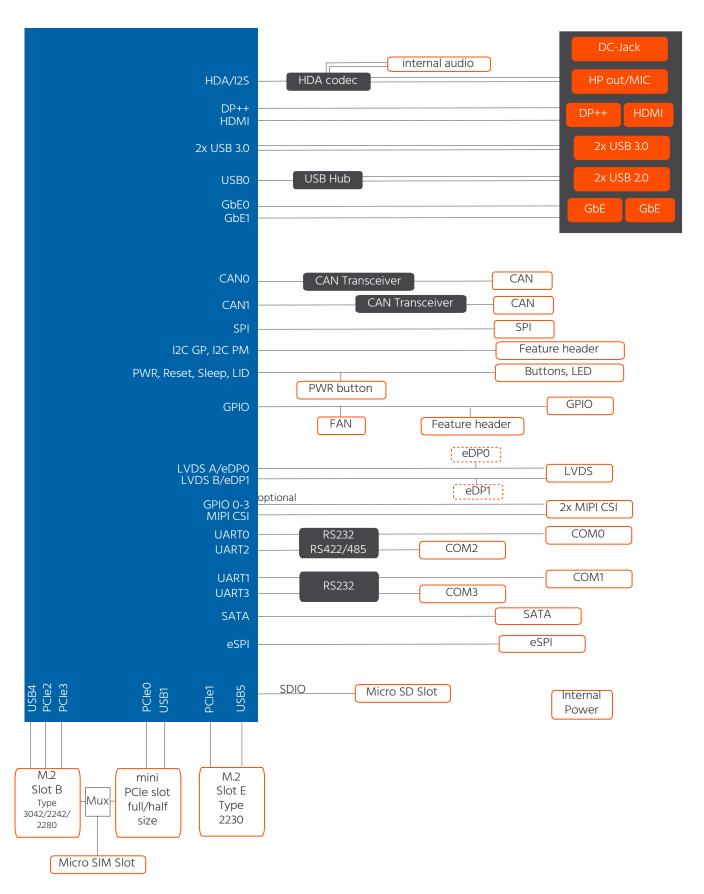
PN 020751 conga-SMC1/SMARC-x86

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# conga-SMC1/SMARC-x86 | Block Diagram



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