

# Application Carrier Board for x86 based SMARC 2.0 Modules

# conga-SMC1/SMARC-x86



- Compact sized SMARC 2.0 Carrier Board
- Support of x86 based SMARC 2.0 Modules
- Ready-to-use Carrier Board
- Platform for rapid customizing
- Support of fast implementation and improved Time-To-Market

<b>Formfactor</b>	3.5" Carrier Board
<b>Board Variant</b>	Application Carrier Board for x86 based SMARC 2.0 modules
<b>Internal Connectors and Features</b>	<ul style="list-style-type: none"><li>1x LVDS 18/24bit single/dual channel LVDS</li><li>2x optional eDP/DSI (dependent on processor platform)</li><li>1x LCD backlight (5V and 12V)</li><li>1x SATA Gen3 (support of SATADOM VCC PIN 7 and PIN 8)</li><li>1x SATA Power (+5V, +12V)</li><li>1x mPCIe full/half size (support for PCIe Gen3 and USB 2.0)</li><li>1x M.2 Type E 2230 (I2S, PCIe Gen3, USB 2.0)</li><li>1x M.2 Type B 2242/2280 (2x PCIe Gen 3, USB 2.0)</li><li>2x MIPI-CSI</li><li>1x Micro SIM (muxed between M.2 Type B and mini PCIe)</li><li>2x RS 232/422/485 (COM 0 and COM 2 with handshake)</li><li>2x RS232 (COM 1 and COM3 TX/RX only)</li><li>2x CAN</li><li>1x Micro SD card</li><li>1x GPIO connector (up to 8 GPIO)</li><li>1x Feature connector (Batlow, Charging, GbE SDP, WD)</li><li>1x Buttons and LEDs (Power, Reset, Sleep, LID, Power LED, SATA LED)</li><li>1x Onboard power button</li><li>1x Onboard power state LED</li><li>1x SPI/eSPI header</li><li>1x I2C header</li><li>1x DMIC and analog front panel audio output</li><li>1x 12V FAN connector (4-pin)</li><li>1x RTC backup (CR2032)</li><li>1x Internal DC-In</li></ul>
<b>External Connectors</b>	<ul style="list-style-type: none"><li>2x GbE RJ45</li><li>2x USB 2.0</li><li>2x USB 3.0/3.1</li><li>1x HDMI</li><li>1x DP++</li><li>1x Audio Jack 4-pin with HDA audio ALC888S-VD</li><li>1x External DC-In (12-24V)</li></ul>
<b>Power Specification</b>	External and internal DC-In (12-24V Wide Range Carrier Board Supply )
<b>Operating Temperature</b>	Operating Temp.: 0°C ... +60°C      Storage Temp.: -20°C ... +70°C
<b>Humidity</b>	Operating Hum.: 10% - 90% r. H. non cond.      Storage Hum.: 5% - 95% r. H. non cond.
<b>Size</b>	146 x 102 mm (approx. 5.75" x 4.02")
<b>Order Information</b>	PN 020751 conga-SMC1/SMARC-x86

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