

# Evaluation Carrier Board for SMARC

# conga-SEVAL



Evaluation Carrier Board for SMARC 2.0 modules.  
To achieve a quick start with SMARC congatec offers an evaluation carrier board, which routes all the SMARC signals to standard interface connectors.

<b>Ethernet</b>	2x Gigabit Ethernet
<b>Internal connectors</b>	1x PCIe x4   1x miniPCIe   1x PCIe x1   1x M.2 socket Key E 1x SATA 1x USB 3.0   1x USB 2.0   1x micro USB 2.0 (OTG)   1x USB Type C with PD and DP1 via Alternate Mode 2x RS-232 (1x internal RX/TX on pinheader, 1x RX/TX w/ handshake on DSUB9) 2x CAN GPIO 1x SDIO interface 2x I <sup>2</sup> C Bus 1x eSPI/SPI1 on header 1x SPI Bus 1x FAN control 1x Disk Drive Power Output
<b>Internal Graphic Interface</b>	2x24 bit LVDS connector shared with 2x eDP or 2xDSI
<b>External Graphic Interfaces</b>	1x DP++ 1x HDMI
<b>Camera Interface</b>	2x CSI2
<b>Audio</b>	I2S Audio interface and HDA interface
<b>Buttons and LED's</b>	Power button   Reset button   Sleep button   LID button   various indication LEDs
<b>Feature Connector</b>	1x Standard congatec Feature Connector
<b>Postcode</b>	4x 7-Segment Postcode LEDs connected to GP_I2C bus
<b>Temperature</b>	Operating: -40 .. +85°C   Storage: -20 .. +80°C
<b>Power Input</b>	ATX Power Supply   12V - 24V Wide Range Carrier Board Supply   3.0V - 5.25V Wide Range Module Supply   USB Type C PD (12V - 20V)
<b>Humidity</b>	Operating: 10 - 90% r. H. non cond.   Storage: 5 - 95% r. H. non cond.
<b>Size</b>	294 x 172 mm (3.7" x 4.5")

# conga-SEVAL | Order Information

Article	PN	Description
conga-SEVAL	007010	Evaluation Carrier Board for SMARC 2.0 modules.

## SMARC modules | Order Information

Article	PN	Description
conga-SA5/E3950-8G eMMC32	050000	SMARC 2.0 module with Intel® Atom™ E3950 quad core processor with 1.6GHz core frequency up to 2.0GHz, 2MB L2 cache, 8GB 2133MT/s LPDDR4 onboard memory and 32GB eMMC onboard flash.
conga-SA5/E3940-4G eMMC16	050001	SMARC 2.0 module with Intel® Atom™ E3940 quad core processor with 1.6GHz core frequency up to 1.8GHz, 2MB L2 cache, 4GB 2133MT/s LPDDR4 onboard memory and 16GB eMMC onboard flash.
conga-SA5/E3930-2G eMMC8	050002	SMARC 2.0 module with Intel® Atom™ E3930 dual core processor with 1.3GHz core frequency up to 1.8GHz, 1MB L2 cache, 2GB 2133MT/s LPDDR4 onboard memory and 8GB eMMC onboard flash.
conga-SA5/i-E3950-4G eMMC16	050010	SMARC 2.0 module with Intel® Atom™ E3950 quad core processor with 1.6GHz core frequency up to 2.0GHz, 2MB L2 cache, 8GB 2133MT/s LPDDR4 onboard memory and 16GB eMMC onboard flash. Industrial grade temperature range from -40°C to 85°C.
conga-SA5/i-E3940-4G eMMC16	050011	SMARC 2.0 module with Intel® Atom™ E3940 quad core processor with 1.6GHz core frequency up to 1.8GHz, 2MB L2 cache, 4GB 2133MT/s LPDDR4 onboard memory and 16GB eMMC onboard flash. Industrial grade temperature range from -40°C to 85°C.
conga-SA5/i-E3930-2G eMMC16	050012	SMARC 2.0 module with Intel® Atom™ E3930 dual core processor with 1.3GHz core frequency up to 1.8GHz, 1MB L2 cache, 2GB 2133MT/s LPDDR4 onboard memory and 8GB eMMC onboard flash. Industrial grade temperature range from -40°C to 85°C.
conga-SA5/N3350-4G eMMC16	050022	SMARC 2.0 module with Intel® Celeron™ N3350 dual core processor with 1.1GHz core frequency up to 2.3GHz, 1MB L2 cache, 4GB 2133MT/s LPDDR4 onboard memory and 16GB eMMC onboard flash.
conga-SA5/N4200-8G eMMC32	050023	SMARC 2.0 module with Intel® Pentium® N4200 quad core processor with 1.5GHz core frequency up to 2.50GHz, 2MB L2 cache, 8GB 2133MT/s LPDDR4 onboard memory and 32GB eMMC onboard flash.

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