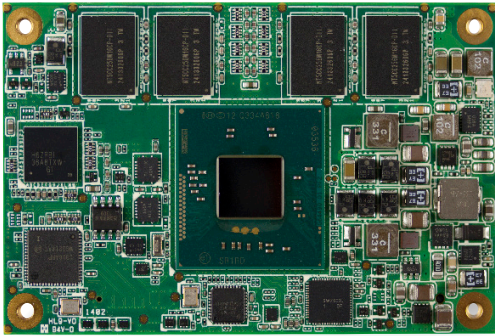


POWERFUL AND SMALL

conga-MA3

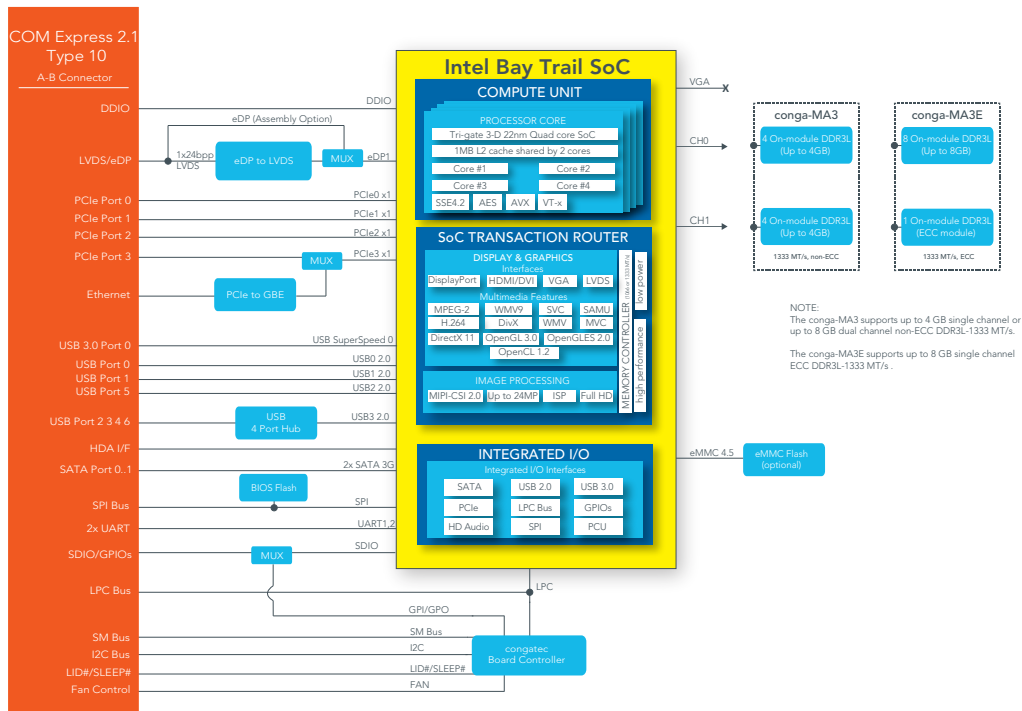


- 3rd Gen. Intel® Atom™ | Intel® Celeron® processor family
- COM Express Mini Type 10 module
- High resolution Intel® Gen. 7 graphics
- Temperature range up to -40°C .. +85°C

COM  **Express®**

| | | | | |
|---------------------------|---|---------------------|----------------|----------|
| Formfactor | Formfactor COM Express® Mini (55 x 84 mm) Type 10 | | | |
| CPU | Intel® Atom™ E3845 | 1.91GHz Quad Core | L2 cache 2MB | 10W TDP |
| | Intel® Atom™ E3827 | 1.75GHz Dual Core | L2 cache 1MB | 8W TDP |
| | Intel® Atom™ E3826 | 1.46GHz Dual Core | L2 cache 1MB | 7W TDP |
| | Intel® Atom™ E3815 | 1.46GHz Single Core | L2 cache 512kB | 5W TDP |
| | Intel® Celeron® N2930 | 1.86GHz Quad Core | L2 cache 2MB | 7.5W TDP |
| DRAM | Onboard DDR3L memory support for up to 8 GByte with 1333MT/s | | | |
| Chipset | Integrated in SoC | | | |
| Onboard storage | eMMC 4.51 interface up to 64GB of MLC NAND up to 4GB of SLC NAND | | | |
| Ethernet | Intel I210 Gigabit Ethernet | | | |
| I/O Interfaces | Up to 4x PCIe x1 lanes with 5 Gb/s PCI Express 2.0 2x SATA 2.0 3Gb/s ports 7x USB 2.0 1x USB 3.0 LPC SPI I ² C bus (fast mode 400 kHz, multi-master) SDIO | | | |
| Sound | Digital High Definition Audio Interface | | | |
| Graphics | Intel® HD Graphics Gen 7 Full hardware acceleration for MPEG2 H.264 DirectX11 OCL 1.2 OGL 3.2 WMV9 and VC1 | | | |
| LVDS | Single channel LVDS transmitter support for flat panels with 1x18 bit/1x24 bit data mapping up to a resolution of 1920x1200@60Hz. | | | |
| Digital Display Interface | Displayport 1.1 up to 2560x1600 or HDMI 1.4a / DVI up to 1920x1200 | | | |
| congatec Board Controller | Multi Stage Watchdog non-volatile User Data Storage Manufacturing and Board Information Board Statistics BIOS Setup Data Backup I ² C bus (fast mode, 400 kHz, multi-master) Power Loss Control | | | |
| Embedded BIOS Features | OEM Logo OEM CMOS Defaults LCD Control Display Auto Detection Backlight Control Flash Update based on AMI Aptio UEFI | | | |
| Power Management | ACPI 5.0 with battery support | | | |
| Operating Systems | Microsoft® Windows® 8 Microsoft® Windows® 7 Linux Microsoft® Windows® Embedded Standard Microsoft® Windows® 7 Embedded Compact | | | |
| Power Consumption | Typ. application: see user's guide for full details | | | |
| Temperature | Commercial : Operating: 0 to +60°C Storage: -20 to +80°C Industrial : Operating: -40 to +85°C Storage: -45 to +85°C | | | |
| Humidity | Operating: 10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond. | | | |
| Size | 55 x 84 mm (2.17" x 3.31") | | | |

conga-MA3 | Block diagram



conga-MA3 | Order Information

| Article | PN | Description |
|------------------------------------|--------|---|
| conga-MA3/E3845-4G eMMC8 | 047400 | Intel® Atom™ E3845 quad core processor with 1.91GHz 2MB L2 cache 4GB 1333MT/s DDR3L onboard memory and 8GB eMMC onboard flash. |
| conga-v MA3/E3827-2G eMMC4 | 047401 | Intel® Atom™ E3827 dual core processor with 1.75GHz 1MB L2 cache 2GB 1333MT/s DDR3L onboard memory and 4GB eMMC onboard flash. |
| conga-MA3/E3826-2G eMMC4 | 047402 | Intel® Atom™ E3826 dual core processor with 1.46GHz 1MB L2 cache 2GB 1066MT/s DDR3L onboard memory and 4GB eMMC onboard flash. |
| conga-MA3/E3815-2G | 047404 | Intel® Atom™ E3815 single core processor with 1.46GHz 512kB L2 cache 2GB 1066MT/s DDR3L onboard memory. |
| conga-MA3/N2930-2G | 047406 | Intel® Celeron® N2930 quad core processor with 1.83GHz up to 2.16GHz 2MB L2 cache and 2GB 1333MT/s DDR3L onboard memory. Low power consumption with 7.5W TDP |
| conga-MA3/N2807-2G | 047407 | Intel® Celeron® N2807 single core processor with 1.58GHz up to 2.16GHz 1MB L2 cache and 2GB 1333MT/s DDR3L onboard memory. Low power consumption with 4.3W TDP |
| conga-MA3/i-E3845-4G eMMC8 | 047410 | Intel® Atom™ E3845 quad core processor with 1.91GHz 2MB L2 cache 4GB 1333MT/s DDR3L onboard memory and 8GB eMMC onboard flash. Industrial grade temperature range from -40°C to 85°C. |
| conga-MA3/i-E3827-2G eMMC4 | 047411 | Intel® Atom™ E3827 dual core processor with 1.75GHz 1MB L2 cache 2GB 1333MT/s DDR3L onboard memory and 4GB eMMC onboard flash. Industrial grade temperature range from -40°C to 85°C |
| conga-MA3/i-E3845-2G eMMC4 | 047413 | Intel® Atom™ E3845 quad core processor with 1.91GHz 2MB L2 cache 2GB 1333MT/s DDR3L onboard memory and 4GB eMMC onboard flash. Industrial grade temperature range from -40°C to 85°C. |
| conga-MA3/i-E3815-2G | 047414 | Intel® Atom™ E3815 single core processor with 1.46GHz 512kB L2 cache 2GB 1066MT/s DDR3L onboard memory. Industrial grade temperature range from -40°C to 85°C. |
| conga-MA30/HSP-T | 047450 | Standard heatspreader for COM Express Type 10 module conga-MA3. All standoffs are M2.5 thread. |
| conga-MA30/HSP-B | 047451 | Standard heatspreader for COM Express Type 10 module conga-MA3. All standoffs are 2.7mm bore hole. |
| conga-MA30/CSP-T | 047452 | Standard passive cooling solution for COM Express Type 10 module conga-MA3 with fins. All standoffs are M2.5mm thread. |
| conga-MA30/CSP-B | 047453 | Standard passive cooling solution for COM Express Type 10 module conga-MA3 with fins. All standoffs are 2.7mm bore hole. |
| Accessories | | |
| conga-MEVAL | 065400 | Evaluation carrier board for Type 10 COM-Express-modules |
| conga-LDVI/EPI | 011115 | LVDS to DVI converter board for digital flat panels with onboard EEPROM |
| COM-Express-carrier-board-Socket-5 | 400007 | Connector for COM-Express carrier boards height 5mm packing unit 4 pieces |
| COM-Express-carrier-board-Socket-8 | 400004 | Connector for COM-Express carrier boards height 8mm packing unit 4 pieces |

© 2014 congatec AG. All rights reserved.

All data is for information purposes only. Although all the information contained within this document is carefully checked, no guarantee of correctness is implied or expressed. Product names, logos, brands, and other trademarks featured or referred are the property of their respective trademark holders. These trademark holders are not affiliated with congatec AG. Rev. November 04, 2014 MR

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9