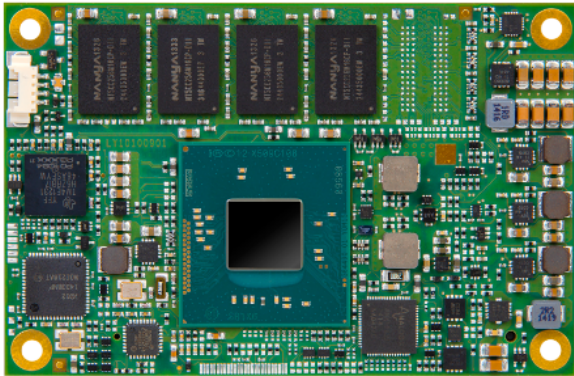


TRIA C10M-BTC

Intel® Atom™ / Celeron® SOC



84 x 55

8/ 14W

-40-+85

COM 
Express



Highlights

- Intel Atom E3845 quad-core 1.91GHz, 10W
- Intel Atom E3827 dual-core 1.75GHz, 8W
- Intel Atom E3826 dual-core 1.46GHz, 7W
- Intel Atom E3825 dual-core 1.33GHz, 6W
- Intel Atom E3815 single-core 1.46GHz, 5W
- Intel Atom E3805 dual-core 1.33GHz, 3W (no graphics)
- Intel Celeron N2930 quad-core 1.83GHz, 7.5W
- Integrated Intel Gen. 7 HD graphics
- Up to 8GB DDR3L SDRAM, ECC opt.
- Two SATA 3Gb/s mass storage interfaces
- eMMC SSD (optional)
- DisplayPort/HDMI/DVI interface
- LVDS/Embedded DisplayPort interface
- Two independent displays supported
- DirectX 11.1, OpenGL 3.2, OpenCL 1.1
- One USB 3.0/2.0 and four USB 2.0 interfaces
- One USB 2.0 client interface
- Two UARTs
- Trusted Platform Module (option)
- Extended temperature variants

COM Express Type 10



Technical Data

| | |
|---------------------------|--|
| Technology | x86 |
| Formfactor | FCOM Express Mini |
| CPU | Intel Atom E3845 quad-core 1.91GHz, 10W TDP Intel Atom E3827 dual-core 1.75GHz, 8W TDP Intel Atom E3826 dual-core 1.46GHz, 7W TDP Intel Atom E3825 dual-core 1.33GHz, 6W TDP Intel Atom E3815 single-core 1.46GHz, 5W TDP Intel Atom E3805 dual-core 1.33GHz, 3W TDP (no graphics) Intel Celeron N2930 quad-core 1.83GHz, 7.5W TDP |
| Chipset | SOC |
| RAM | up to 8GB DDR3L@1.35V SDRAM (DDR1333) soldered on board, ECC optional |
| Flash | eMMC optional |
| Storage Interfaces | 2x SATA 3Gb/s |
| USB | 1x USB 3.0, 4x USB 2.0, 1 x USB 2.0 client |
| Serial Interfaces | 2x UART |
| Bus Interfaces | 3x PCI Express x1 Gen 2, fourth channel is available if no GbE is used; LPC bus (Low Pin Count bus) |
| Display Controller | Integrated Intel HD graphics Gen. 7 |
| Display Memory | UMA |
| Display Interfaces | 1x Digital Display Interface (DP 1.1a (2560 x 1600), DVI/HDMI 1.4a (1920 x 1080)), 1x Embedded DisplayPort 1.3, 2560 x 1600 @ 60Hz (shared with LVDS), LVDS 24 bit, single-channel, 1366 x 768 @ 60Hz (shared with Embedded DisplayPort) |
| Network Interface | 10/100/1000Base-TX (Intel i210) |
| Audio Interface | High Definition Audio |
| Security Device | TPM 1.2 (option) |
| Miscellaneous | Watchdog Timer: Initiates system reset, programmable RTC battery: external System Monitoring: voltage, temperature, CPU fan, system fan |
| Feature Highlights | Type 10 pin-out |
| Firmware | AMI Aptio UEFI |
| OS Support | Windows 7 Windows 10 Windows 10 IOT Core BSP for Linux on request EAPI (HW Programming Interface) |
| Power Requirement | Wide range input +5 ... +20V, 5V Stby optional, 8 W (typ.) up to 14 W (typ.) |
| Environment | Ambient Temperature; 0° ... 60°C (operating, commercial), -40° ... 85°C (operating, industrial), -40° ... 85°C (storage) Humidity: 5 ... 95% (operating, non-condensing), 5 ... 95% (storage, non-condensing) |
| Dimensions | 84mm x 55mm |

Technical Data for TRIA C10M-BTC

COM Express Type 10



Order Reference

| Order No. | Description | Reference | Status* |
|-----------|---|-----------------------------|---------|
| 67428 | COM Express Type 10 Mini module (84mm x 55mm); CPU: Intel Atom E3815 single-core 1.46GHz, 512kB L2, 5W TDP; Graphics: integrated Intel HD Gen 7; DP/HDMI and LVDS interfaces; Ethernet: Intel i210 Gbit; 4GB DDR3L SDRAM; 4GB eMMC; TPM; HD audio; 2x SATA, 1x USB3, 4x USB2, 1x USB2 client, 1x PCU UART, 1x HS UART, 3x PCIe x1; -40 ... +85°C | MSC C10M-BTC-3161 PCBFTX | PV |
| 67473 | COM Express Type 10 Mini module (84mm x 55mm); CPU: Intel E3815 single-core 1.46GHz, 0.5MB L2, 5W TDP; Graphics: integrated Intel HD Gen 7; DP/HDMI and eDP interfaces; Ethernet: Intel i210 Gbit; 1GB DDR3 SDRAM; 4GB eMMC; HD audio; no TPM; 2x SATA, 1x USB3, 3x USB2, USB2 client, 2x HS UART, 3x PCIe x1; | MSC C10M-BTC-2441 PCBFTX | PV |
| 67471 | COM Express Type 10 Mini module (84mm x 55mm); CPU: Intel E3815 single-core 1.46GHz, 0.5MB L2, 5W TDP; Graphics: integrated Intel HD Gen 7; DP/HDMI and eDP interfaces; Ethernet: Intel i210 Gbit; 1GB DDR3 SDRAM; HD audio; no TPM; 2x SATA, 1x USB3, 3x USB2, USB2 client, 2x HS UART, 3x PCIe x1; | MSC C10M-BTC-2401 PCBFTX | PV |
| 67430 | COM Express Type 10 Mini module (84mm x 55mm); CPU: Intel Atom E3826 dual-core 1.46GHz, 1MB L2, 7W TDP; Graphics: integrated Intel HD Gen 7; DP/HDMI and LVDS interfaces; Ethernet: Intel i210 Gbit; 4GB DDR3L SDRAM; 4GB eMMC; TPM; HD audio; 2x SATA, 1x USB3, 4x USB2, 1x USB2 client, 1x PCU UART, 1x HS UART, 3x PCIe x1; -40 ... +85°C | MSC C10M-BTC-3163 PCBFTX | OR |
| 67544 | COM Express Type 10 Mini module (84mm x 55mm); CPU: Intel Atom E3845 quad-core 1.91GHz, 2MB L2, 10W TDP; Graphics: integrated Intel HD Gen 7; DP/HDMI and LVDS interfaces; Ethernet: Intel i210 Gbit; 4GB DDR3L SDRAM; 4GB eMMC; HD audio; 2x SATA, 1x USB3, 4x USB2, 1x USB2 client, 3x PCIe x1; | MSC C10M-BTC-2065 PCBFTX | OR |

COM Express Type 10



| Order No. | Description | Reference | Status* |
|-----------|---|-----------------------------|---------|
| 67426 | COM Express Type 10 Mini module (84mm x 55mm); CPU: Intel Celeron N2930 quad-core 1.83/2.16GHz, 2MB L2, 7.5W TDP; Graphics: integrated Intel HD Gen 7; DP/HDMI and LVDS interfaces; Ethernet: Intel i210 Gbit; 4GB DDR3L SDRAM; 16GB eMMC; HD audio; 2x SATA, 1x USB3, 4x USB2, no USB2 client, 3x PCIe x1; | MSC C10M-BTC-30E6 PCBFTX | PV |

Ordering Information for TRIA C10M-BTC

*PV = Preferred variant; OR = on Request (in OEM quantities only)

COM Express Type 10



Accessories

Carrier Options

| Order No. | Description | Reference |
|-----------|--|--------------------------|
| 67293 | COM Express Type 10 Evaluation Carrier Board with PCI Express x4 slot, USB 3.0/2.0, GbE, SATA, DisplayPort, eDP/LVDS and HD audio interfaces; Mini PCI Express socket; SD card slot, ATX power connector and single 12V power jack. Dimensions: 170mm x 170mm (Mini-ITX form factor) | MSC C10-MB-EV-001 PCBFTX |

Carrier Options for Tria COM Express Type 10 modules

Cooling Solutions

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