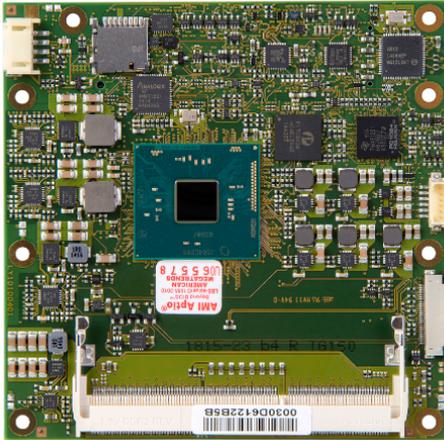


COM Express Type 6



TRIA C6C-BW

Intel® Atom™ / Pentium® / Celeron® SOC



95 x 95

7 / 9W

0-+60

COM 
Express



Highlights

- Intel Pentium N3710 quad-core 1.6/2.56GHz, 6W
- Intel Celeron N3160 quad-core 1.6/2.24GHz, 6W
- Intel Celeron N3060 dual-core 1.6/2.48GHz, 6W
- Intel Celeron N3010 dual-core 1.04/2.24GHz, 4W
- Intel Atom x5-E8000 quad-core 1.04/2.0GHz, 5W
- Integrated Intel Gen. 8 HD graphics
- Up to 8GB DDR3L SDRAM, dual-channel
- Two SATA 6Gb/s mass storage interfaces
- MicroSD card socket
- DisplayPort/HDMI/DVI interface
- LVDS/embedded DisplayPort interface
- Three independent displays supported
- DirectX 11.1, OpenGL 4.2, OpenCL 1.2
- Four USB 3.0 and four USB 2.0 interfaces
- Up to five PCI Express™ x1 lanes
- Trusted Platform Module

COM Express Type 6



Technical Data

| | |
|---------------------------|---|
| Technology | x86 |
| Formfactor | COM Express Compact |
| CPU | Intel Pentium N3710 quad-core 1.6/2.56GHz, 2MB Cache, 6W TDP, Intel Celeron N3160 quad-core 1.6/2.24GHz, 2MB Cache, 6W TDP, Intel Celeron N3060 dual-core 1.6/2.48GHz, 2MB Cache, 6W TDP, Intel Celeron N3010 dual-core 1.04/2.24GHz, 2MB Cache, 4W TDP, Intel Atom x5-E8000 quad-core 1.04/2.0GHz, 2MB Cache, 5W TDP |
| Chipset | SOC |
| RAM | up to 8GB DDR3L (1333), 2x 204 pin SO-DIMM |
| Flash | MicroSD card socket |
| Storage Interfaces | 2x SATA 6Gb/s |
| USB | 4x USB 3.0/2.0, 4x USB 2.0 |
| Bus Interfaces | Up to 5x PCI Express x1 Gen 2, LPC bus (Low Pin Count bus) |
| Display Controller | Integrated Intel HD graphics Gen. 8 |
| Display Interfaces | 2x Digital Display Interface (DP 1.1a (2560 x 1600 @ 60Hz or 3840x2160 @ 30Hz), DVI/HDMI 1.4b (2560 x 1600 @ 60Hz or 3840x2160 @ 30Hz)), 1x LVDS 24 bit, dual channel, 1920 x 1200 @ 60Hz 1x Embedded DisplayPort 1.4 (option, alternatively to LVDS), 2560 x 1600 @ 60Hz |
| Network Interface | 10/100/1000Base-T (Intel i210) |
| Audio Interface | High Definition Audio |
| Security Device | TPM 1.2 |
| Miscellaneous | Watchdog Timer: Initiates system reset, programmable Fan Supply: 4-pin header for CPU fan, PWM speed controlled and PWM speed control for system fan supported RTC battery: external System Monitoring: voltage, temperature, CPU fan, system fan |
| Feature Highlights | Type 6 pin-out |
| Firmware | AMI Aptio UEFI |
| OS Support | Windows 7, 8, 8.1 (embedded) BSP for Linux on request EAPI (HW Programming Interface) |
| Power Requirement | Wide range input +5 ... +17V, 5V Stby optional, 7 W (typ.) up to 9 W (typ.) |
| Environment | Ambient Temperature; 0° ... 60°C (operating), -25° ... 85°C (storage) Humidity: 5 ... 95% (operating, non-condensing), 5 ... 95% (storage, non-condensing) |
| Dimensions | 95mm x 95mm |

COM Express Type 6



| | |
|---------------------|---|
| Certificates | UL / CE |
| Cooling | Passive heat sink Active heat sink with fan Heat spreader with threaded or non-threaded standoffs |
| Carrier | Small carrier board as part of a starter kit; Evaluation board in ATX form factor |
| Memory | DDR3L SODIMMS 2GB or 4GB |

Technical Data for TRIA C6C-BW

COM Express Type 6



Order Reference

| Order No. | Description | Reference | Status* |
|-----------|---|-----------------------|---------|
| 66840 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Celeron N3010 dual-core 1.04/2.24GHz, 2MB L2, 4W TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; LVDS; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-001 PCBFTX | OR |
| 66852 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Celeron N3060 dual-core 1.6/2.48GHz, 2MB L2, 6 TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; LVDS; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-002 PCBFTX | PV |
| 66854 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Celeron N3160 quad-core 1.6/2.24GHz, 2MB L2, 6 TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; LVDS; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-003 PCBFTX | OR |
| 66856 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Pentium N3710 quad-core 1.6/2.56GHz, 2MB L2, 6 TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; LVDS; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-004 PCBFTX | PV |
| 68625 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Atom x5-E8000 quad-core 1.04/2.0GHz, 2MB L2, 5W TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; LVDS; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-005 PCBFTX | PV |

COM Express Type 6



| Order No. | Description | Reference | Status* |
|-----------|--|-----------------------|---------|
| 69399 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Celeron N3010 dual-core 1.04/2.24GHz, 2MB L2, 4W TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; eDP; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-021 PCBFTX | PV |
| 69401 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Celeron N3060 dual-core 1.6/2.48GHz, 2MB L2, 6 TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; eDP; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-022 PCBFTX | OR |
| 69403 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Celeron N3160 quad-core 1.6/2.24GHz, 2MB L2, 6 TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; eDP; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-023 PCBFTX | PV |
| 69405 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Pentium N3710 quad-core 1.6/2.56GHz, 2MB L2, 6 TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; eDP; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-024 PCBFTX | OR |
| 69407 | COM Express Type 6 Compact module (95mm x 95mm); CPU: Intel Atom x5-E8000 quad-core 1.04/2.0GHz, 2MB L2, 5W TDP; Graphics: integrated Intel HD Gen 8; various display interfaces; eDP; Ethernet: Intel i210 Gbit; HD audio; 2x SATA, 4x USB3/2, 4x USB2, 5x PCIe x1; TPM; 2x socket for DDR3L SO-DIMM. | MSC C6C-BW-025 PCBFTX | PV |

Ordering Information for TRIA C6C-BW

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

COM Express Type 6



Accessories

Carrier Options

| Order No. | Description | Reference |
|-----------|---|-------------------------|
| 67295 | COM Express Type 6 Evaluation Carrier Board with PCI Express x4/x16 slot, USB 3.0/2.0, GbE, SATA, DisplayPort, eDP/LVDS, VGA 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 C6-MB-EV-001 PCBFTX |
| 41857 | COM Express Type 6 Evaluation Carrier Board with various PCI Express x1, x4 and x16 slots, USB 3.0/2.0, GbE, SATA, DisplayPort, HDMI, LVDS, eDP, VGA, HD audio interfaces; mSATA and Mini PCI Express sockets, POST code display, ATX power connector. Dimensions: 305 x 244 mm (ATX form factor) | MSC C6-MB-EVA PCBFTX |

Carrier Board TRIA C6B-SLH/TRIA C6C-SLU/BW

Cooling Solutions

| Order No. | Description | Reference |
|-----------|--|-----------------------|
| 1120173 | Active Heatsink for C6C-BW, C6C-BT and CXC-BT, consisting of a single-piece aluminum profile with fins, standoffs without thread (2.7mm inner diameter), screws and thermopads for the thermal contact to SOC. PWM fan 80x80x15mm. | MSC C6C-BT-01 HSF-001 |
| 1119053 | Passive Heatsink for C6C-BW, C6C-BT and CXC-BT, consisting of a single-piece aluminum profile with fins, standoffs without thread (2.7mm inner diameter), screws and thermopad for the thermal contact to SOC. | MSC C6C-BT-01 HSI-001 |
| 1122654 | Heatspreader for C6C-BW, C6C-BT and CXC-BT. Single-piece aluminum profile, standoffs without thread (2.7mm inner diameter), screws and thermopad for the thermal contact to SOC.! | MSC C6C-BT-01 HSP-001 |
| 1122653 | Heatspreader for C6C-BW, C6C-BT and CXC-BT. Single-piece aluminum profile, threaded standoffs (M2.5), screws and thermopad for the thermal contact to SOC. | MSC C6C-BT-02 HSP-001 |

Cooling Devices for TRIA C6C-BW/BT

Memory Options

| Order No. | Description | Reference |
|-----------|--------------------------------------|---------------------------------------|
| 73461 | 2GB SoDimm, DDR3L-1866, 256Mx8 based | MOD SODIMM DDR3 2GB PC3-14900 CL13 1B |
| 72004 | 4GB SoDimm, DDR3L-1866, 512Mx8 based | MOD SODIMM DDR3 4GB PC3-14900 CL13 1B |
| 79963 | 8GB SoDimm, DDR3L-1866, 512Mx8 based | MOD SODIMM DDR3 8GB PC3-14900 CL13 2B |

Memory Options for TRIA C6C-BW

COM Express Type 6



Starter Kits

| Order No. | Description | Reference |
|-----------|--|------------------------|
| 67555 | COM Express Type 6 Starterkit for all C6C-BT and C6C-BW modules; uses the C6-MB-EV platform for Type 6 modules in Mini-ITX format; includes 2x DDR3 memory modules, suitable Heatspreader for C6C-BT and -BW modules and 12V Power Supply with Power Cable; includes Resource Drive with drivers, tools and documentation. Please order separately the COM Express C6C-BT or C6C-BW module of your choice. | MSC C6-SK-BT-EV-KIT001 |

Starter Kits for TRIA C6C-BW/BT

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