

CB4053 | PC/104 Industrial Motherboard

CPU type

- CPU: Intel® Atom™
- FSB: max. 533 MHz
- Performance: 1.1...1.6 GHz

Chipset

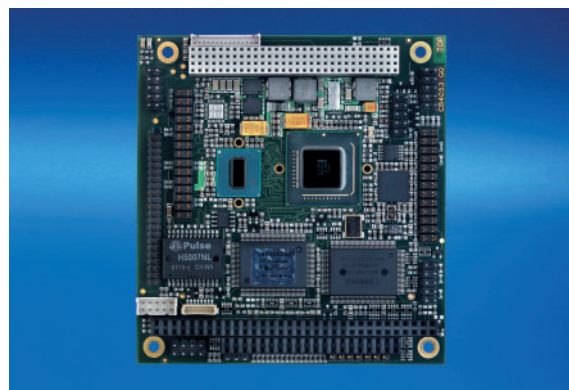
- Northbridge: Intel® System Controller Hub
- Southbridge: Intel® System Controller Hub

Memory

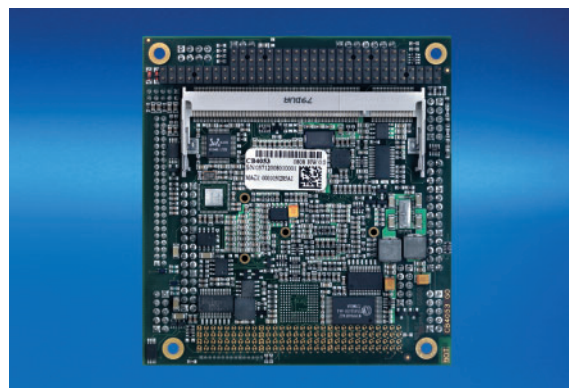
- Type: SODIMM200–1.8 V/DDR2
- Speed max.: DDR2 533

Graphic

- Controller: Intel® IGD integrated
- Memory: 8 MB UMA/256 MB DVMT



Front side



Back side

Technical data

| CPU type | |
|-----------------------------|---------------|
| CPU | Intel® Atom™ |
| Socket | no (soldered) |
| 2 nd level cache | 512 kB |
| FSB | max. 533 MHz |
| Performance | 1.1...1.6 GHz |

| Chipset | |
|---------------------|------------------------------|
| Northbridge | Intel® System Controller Hub |
| Southbridge | Intel® System Controller Hub |
| Super IO1 | Winbond W83627H |
| Super IO2 | – |
| ISA | Fintek F85226F |
| Hardware monitoring | Super IO1 |

| Memory | |
|-----------------|----------------------|
| Type | SODIMM200–1.8 V/DDR2 |
| Size max. (MB) | 1,024 MB |
| Speed max. | DDR2 533 |
| On-board flash | optional, up to 8 GB |
| On-board NOVRAM | – |

| Graphic | |
|----------------|-----------------------|
| Controller | Intel® IGD integrated |
| Video BIOS | Intel® IGD |
| Memory | 8 MB UMA/256 MB DVMT |
| CRT | yes |
| CRT resolution | 1600 x 1200 |
| DVI | – |
| LCD TTL | – |
| LCD LVDS | 18/24 |
| LCD resolution | 1600 x 1200 |

| BIOS | |
|----------------------------|---------------|
| Manufacturer | Phoenix Award |
| BIOS chip | FWH |
| Power management APM/ACPI | yes/yes |
| SpeedStep®/ATM | yes/– |
| Selectable fixed frequency | yes |
| Power states | S0/S4/S5 |

| Buses | |
|-----------------|---------|
| ISA | PC/104 |
| PCI | PC/104+ |
| AGP 3.3 V/1.5 V | – |
| PCIe x1/x4/x16 | –/–/– |

| Audio | |
|------------------------------------------|-----------------------------|
| Controller and codec | Intel® SCH + Realtek ALC885 |
| Support for 2/6/8 channels (2.0/5.1/7.1) | yes/yes/– |
| Analog input | Line/Mic1/Mic2/PCBeep |
| Analog output Line/Mono out | yes/– |
| Digital input/output | yes/yes |
| Amplifier | – |

| LAN | |
|------------------|---------------|
| LAN1 controller | Intel® 82574L |
| LAN1 | 10/100/1000 |
| LAN1 boot option | RPL/PXE |
| LAN2 controller | – |
| LAN2 | – |
| LAN2 boot option | – |

| ATA/SATA interfaces | |
|-----------------------|-----------|
| ATA primary/secondary | yes/– |
| ATA RAID | – |
| PIO | 0/1/2/3/4 |
| DMA | 33/66/100 |
| SATA | – |
| SATA RAID | – |
| 1.5 Gbs/3.0 Gbs | – |
| Compact Flash socket | – |

| USB interfaces | |
|------------------|----------------------|
| Boot | HD/FDD/CD-ROM/FD/ZIP |
| USB channels | 8 |
| USB | 1.0/2.0/host/device |
| Specials/options | – |

| Serial interfaces | |
|-------------------|-----------------------|
| COM1/2 | RS232/(RS485)/(RS422) |
| COM3/4 | – |

| Parallel interfaces | |
|---------------------|-------------|
| LPT1 | Uni/EPP/FDC |
| LPT2 | – |

| Interfaces | |
|--------------------------------|---------|
| PS/2 keyboard/mouse | yes/yes |
| Floppy interface FCC/LPT | – |
| Touch controller ELO resistive | – |
| TPM | – |
| Watchdog | yes |

| Power supply | |
|----------------|-----|
| Supply voltage | 5 V |

| Cooling | |
|-----------------------|----------------|
| Cooling mode | passive/active |
| Operating temperature | 0...60 °C |
| Extended temperature | on request |
| Storage temperature | -20...+70 °C |

| Dimensions | |
|------------------------|----------------------------------------------------------------------|
| Format | PC/104+ |
| Dimensions (W x H x D) | 90 mm x 24 mm x 96 mm |
| Further information | www.beckhoff.com/CB4053 |