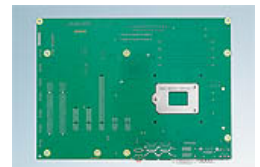# CB1064 | ATX Industrial Motherboard

Beckhoff has expanded the Industrial Motherboard line of business into an independent product segment, with in-house board development, design and production. In addition, the own motherboard and BIOS development initiatives enable Beckhoff to respond more quickly to new technologies in the PC market and to customer-specific requirements.

Front side

Back side

Technical data

General data	
CPU	Intel® Pentium®/Celeron®/Core™ i3/i5/i7, 6th/7th generation
Socket	LGA1151
Chipset	Intel® Q170
Super IO1	SMSC SCH3114
BIOS	AMI® Aptio V
BIOS chip	128 Mbit SPI-Flash
FTPM	yes (2.0)
Watchdog	yes

Memory	
Type	SODIMM260–1.2 V/DDR4
Slots	4
Max. memory	64 GB
Max. speed	2133 MHz

Graphic	
Controller	CPU integrated
Video BIOS	Intel® Extreme / GOP driver
Memory	512 MB DVMT
HDMI resolution	2560 x 1600 @ 60 Hz; 4096 x 2160 @ 24 Hz
DP resolution	4096 x 2304 @ 60 Hz
DVI resolution	1920 x 1200 @ 60 Hz

LAN	
LAN1 controller	Intel® Q170/i219 Phy
LAN1	10/100/1000 MB/s
LAN2 controller	Intel® i210
LAN2	10/100/1000 MB/s

Audio

Controller and codec	Intel® Q170/Realtek ALC888 (HDA)
Support for 2/6/8 channels (2.0/5.1/7.1)	yes/yes/–
Analog input	Line/CD/Mic1/Mic2/PCBeep
Analog output Line/Mono out	yes/–
Digital input/output	yes/yes

Internal interfaces

PCI32	2 x (3.0)
Mini PCI slot	–
PCIe (manufacturer dependency)	–
PCIe x16	1 x (3.0)
PCIe x4	2 x (3.0)
PCIe x1	2 x (3.0)
SATA (total)	6 x
SATA (6 GB/s)	6 x
SATA (3 GB/s)	–
SATA RAID	0/1/5/10
USB 3.0	–
USB 2.0	8 x
Serial interface	3 x RS232

External interfaces

PS/2 keyboard/mouse	yes/yes
USB 3.0	4 x
USB 2.0	–
LAN	2 x
DVI-I	–
DVI-D	2 x
DisplayPort	1 x
Serial interface	1 x RS232
Audio	Line in/out & Mic

Power supply

Supply voltage	ATX 24

Cooling

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

Dimensions

Format	ATX
Dimensions (W x H x D)	305 mm x 41 mm x 220 mm