CB3064 | 3½-inch 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.

Technical data

General data	
CPU	Intel® Pentium®/Celeron®/Core™ i3/i5/i7, 6th/7th generation
Socket	LGA1151
Chipset	Intel® Q170
Super IO1	NCT7491MNTXG
BIOS	AMI® Aptio V
BIOS chip	128 Mbit SPI-Flash
FTPM	yes (2.0)
Watchdog	yes

Memory	
Type	SODIMM260–1.2 V/DDR4
Slots	2
Max. memory	32 GB
Max. speed	2133 MHz

Graphic	
Controller	CPU integrated
Video BIOS	Intel® Extreme / GOP driver
Memory	512 MB DVMT
HDMI resolution	3840 x 2160 @ 60 Hz; 4096 x 2160 @ 24 Hz
DP resolution	3840 x 2160 @ 60 Hz
DVI resolution	1920 x 1200 @ 60 Hz

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

Audio	

Controller and codec	–
Support for 2/6/8 channels (2.0/5.1/7.1)	–
Analog input	–
Analog output Line/Mono out	–
Digital input/output	–

Internal interfaces	
PCI32	–
Mini PCI slot	–
PCIe (manufacturer dependency)	4 x PCIe x1(2.0) or 1 x PCIe x4(2.0), adapter cards required
PCIe x16	–
PCIe x4	–
PCIe x1	–
SATA (total)	4 x
SATA (6 GB/s)	4 x
SATA (3 GB/s)	–
SATA RAID	0/1/5/10
USB 3.0	–
USB 2.0	6 x
Serial interface	1 x RS232

External interfaces	
PS/2 keyboard/mouse	–
USB 3.0	4 x
USB 2.0	–
LAN	2 x
DVI-I	–
DVI-D	1 x
DisplayPort	–
Serial interface	1 x RS232
Audio	–

Power supply	
Supply voltage	3.3 V; 5 V and 5 V standby (12 V for fans)

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

Dimensions	
Format	3½-inch
Dimensions (W x H x D)	147 mm x 20 mm x 102 mm