



CB6464 | Compact 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, Intel® H110
Super IO1	–
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® i219 Phy
LAN1	10/100/1000 MB/s
LAN2 controller	Intel® Q170/H110/i210 Phy
LAN2	10/100/1000 MB/s
LAN3 controller	Intel® Q170/H110/i210 Phy
LAN3	10/100/1000 MB/s
LAN4 controller	Intel® Q170/H110/i210 Phy
LAN4	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)	2 x PCIe x1 at M.2 (depending on chipset configuration)
PCIe x16	–
PCIe x4	1 x via BaseCon (depending on chipset configuration), adapter cards necessary
PCIe x1	max. 8 x (3.0) via BaseCon (depending on chipset configuration), adapter cards necessary
SATA (total)	6 x (depending on chipset, adapter cards necessary)
SATA (6 GB/s)	2 x at M.2, 4 x via BaseCon (depending on chipset configuration), adapter cards necessary
SATA (3 GB/s)	–
SATA RAID	0/1/5/10
USB 3.0	2 x internally at M.2, 4 x via BaseCon (depending on chipset configuration), adapter cards necessary
USB 2.0	2 x internally at M.2, 4 x via BaseCon (depending on chipset configuration), adapter cards necessary
Serial interface	–

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

Power supply	
Supply voltage	24 V

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

Dimensions	
Format	compact motherboard
Dimensions (W x H x D)	120 mm x 26 mm x 120 mm