



C6670-0010 | Control cabinet industrial server



i Product status: Regular delivery

The C6670 and a Beckhoff Control Panel with DVI and USB connection make an ideal combination, representing a powerful platform for machine construction and plant engineering applications with the TwinCAT automation software.

In combination with TwinCAT 3, two Intel® Xeon® processors, each with 8, 12, 16 or 20 cores on one motherboard with two Gigabit Ethernet controllers and a powerful graphics card produce a machine or plant controller that offers computing power for completely new ideas. Apart from the extremely high performance, up to 1024 GB DDR4 RAM and 5 free plug-in card slots are also available for several camera interface cards for video evaluation.

Industrial design

All connections of the industrial server face upwards, so that the connecting cables can be taken directly to the wiring channel. The side walls are completely passive, and allow the industrial server to be fitted immediately next to other control cabinet devices.

Highest data availability and data security

The C6670 features two hard drive removable frames which, together with the on-board RAID controller, form a RAID 1 system with two mirrored hard disks or SSDs. This ensures high data security. Hard disks or SSDs which failed can easily be exchanged during operation.

Flexible expansion options

The device can be equipped with a multi DVD drive. Card holders for the plug-in cards ensure resistance to impacts and vibrations. The C6670 offers convenient access to drives, memory and plug-in cards. The industrial server is supplied with a 100 to 240 V AC full range power supply unit.

A type plate is located on the top of the front cover, giving detailed information about the server configuration.

Advantage at the very core: the Beckhoff Industrial PCs

Beckhoff is a pioneer in PC-based automation technology and has been developing and producing its own PC hardware since 1986. The technology know-how that has grown over the past decades is incorporated today into all Beckhoff Industrial PCs. Their principle feature is the use of state-of-the-art components and processors of the highest performance class. Combined with a high in-house production depth, including proprietary motherboard production, long-term component availability, extremely flexible configuration and customer-specific adaptations, Beckhoff presents itself today as one of the world's leading Industrial PC manufacturers.

Product information

Technical Data

Technical data	C6670-0010	Options
Device type	6 slot SSI EEB industrial server for control cabinet installation	
Slots for hard disk/flash	2 removable frames for hard disks	removable frames for SSDs
Protection rating	IP20	
Operating temperature	0...50 °C	
Weight of basic configuration	16 kg (35.2 lbs)	
Dimensions (W x H x D)	410 x 480 x 201 mm (16.1" x 18.9" x 7.9")	
Processor	2 x Intel® Xeon® Silver 4109T 2.0 GHz, 8 cores per processor (TC3: 82)	up to 2 x Intel® Xeon® Gold 6138T, 2.0 GHz, 20 cores per processor (TC3: 84)
Motherboard	server motherboard for Intel® Xeon® scalable processors	
PCIe/PCI slots	3 x PCIe-x8, 3 x PCIe-x16 for full-length plug-in cards	
Memory	64 GB DDR4 RAM ECC	up to 1024 GB DDR4 RAM ECC
Graphic adapter	graphic card, 1 DVI-I and 1 DVI-D connector, occupies a PCIe x16 slot	
Ethernet	2 x 10GBASE-T on-board	
RAID	on-board SATA RAID 1 controller	
Hard disks/flash	hard disk, 3½-inch, 1 TB, in removable frame	hard disk up to 2 TB, SSD, CFast
Disk drive	–	multi DVD
Interfaces	2 x USB 3.0, 2 x USB 2.0, 1 x RS232	
Power supply	100...240 V AC	UPS
Operating system	–	Windows 10 IoT Enterprise, Windows Server 2016

Options

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C9900-C621	2 processors Intel® Xeon® Gold 6126T, 2.6 GHz, 12 cores per processor (TC3: 83), instead of 2 processors Intel® Xeon® Silver 4109T, 2.0 GHz, 8 cores per processor (TC3: 82), server operating temperature 0...50 °C
C9900-C622	2 processors Intel® Xeon® Gold 6130T, 2.1 GHz, 16 cores per processor (TC3: 83), instead of 2 processors Intel® Xeon® Silver 4109T, 2.0 GHz, 8 cores per processor (TC3: 82), server operating temperature 0...50 °C
C9900-C623	2 processors Intel® Xeon® Gold 6138T, 2.0 GHz, 20 cores per processor (TC3: 84), instead of 2 processors Intel® Xeon® Silver 4109T, 2.0 GHz, 8 cores per processor (TC3: 82), server operating temperature 0...50 °C
C9900-R281	memory extension to 96 GB DDR4-RAM ECC, instead of 64 GB
C9900-R282	memory extension to 192 GB DDR4-RAM ECC, instead of 64 GB
C9900-R283	memory extension to 384 GB DDR4-RAM ECC, instead of 64 GB
C9900-D187	1 slot for 2½-inch hard disks or SSDs behind the front cover
C9900-M629	removable frame for a 2½-inch SSD, instead of removable frame for a 3½-inch hard disk
C9900-H751	solid-state disk SSD, 3D flash, 2½-inch, 240 GB, instead of 3½-inch hard disk
C9900-H747	solid-state disk SSD, 3D flash, 2½-inch, 480 GB, instead of 3½-inch hard disk
C9900-H761	solid-state disk SSD, 3D flash, 2½-inch, 960 GB, instead of 3½-inch hard disk
C9900-H749	solid-state disk SSD, 3D flash, 2½-inch, 240 GB
C9900-H745	solid-state disk SSD, 3D flash, 2½-inch, 480 GB
C9900-H759	solid-state disk SSD, 3D flash, 2½-inch, 960 GB
C9900-H145	additional hard disk, 2½-inch, 320 GB
C9900-H201	hard disk drive, 3½-inch, 2 TB, instead of hard disk 1 TB
C9900-H202	hard disk drive, 3½-inch, 4 TB, instead of hard disk 1 TB
C9900-H152	additional hard disk drive, 3½-inch, 1 TB
C9900-H203	additional hard disk drive, 3½-inch, 2 TB
C9900-H204	additional hard disk drive, 3½-inch, 4 TB
C9900-D118	multi DVD drive slimline, reads CD-ROM and DVD-ROM, reads and writes CD-R/-RW, DVD-R/+R/-RW/+RW 4.7 GB and DVD-R/+R DL 8.5 GB
C9900-U124	uninterruptible power supply UPS for Industrial PC C6670, external, 230V, serial interface RS232
C9900-M623	wall mounting frame for uninterruptible power supply C9900-U120, C9900-U122 and C9900-U124