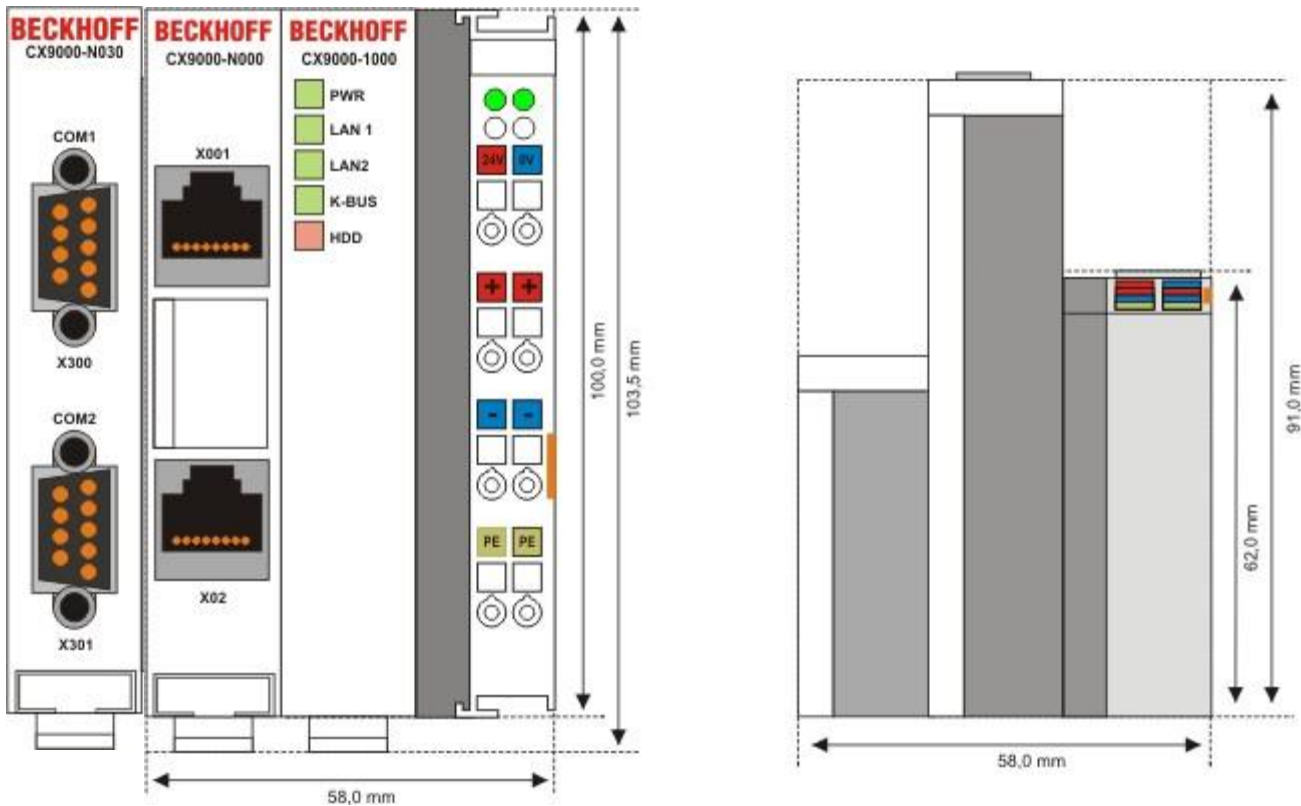
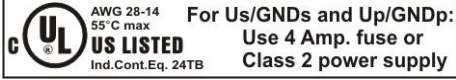


Technical data



The CX9000 is a compact, top hat rail-mountable Ethernet Controller with direct connection to the Beckhoff I/O systems in IP 20. The CX9000 is available in two basic versions: one version for Bus Terminals with K-bus, the other one for EtherCAT Terminals with E-bus. The CX9000 comprises the CPU, the internal flash memory with two configuration options, the main memory (RAM) (available in two different sizes), and NOVRAM as non-volatile memory. Two Ethernet RJ 45 interfaces are also part of the basic configuration. These interfaces are connected to an internal switch and offer a simple option for creating a line topology without the need for additional Ethernet switches. A memory medium in Compact Flash format I and II is available as an optional module (only in combination with system interface CX9000-N010). The operating system is Microsoft Windows CE. The TwinCAT automation software transforms a CX9000 system into powerful PLC and Motion Control system that can be operated with or without visualization. Further system interfaces can be connected to the CPU module ex works. The CX9000-N010 option can be connected to Beckhoff Control Panels or standard monitors with DVI or VGA input via the DVI and USB interfaces. Devices such as printer, scanner, mouse, keyboard, mass storage, CR-RW etc. can be connected via the USB2.0 interfaces. **The module CX9000-N030 offers two serial RS232 interfaces with a maximum transfer speed of 115 kbaud.** These two interfaces can be implemented as RS422/RS485, in which case they are identified as CX9000-N031.

Technical data	CX9000-1000
Processor	Intel® IXP420 with XScale® Technology, 266-MHz clock rate
Internal flash memory	16 MByte Flash (internal, expandable up to 32 MByte)

Internal main memory	64 MByte RAM (internal, expandable up to 128 MByte)
interfaces	2 x RJ 45 (internal Switch), 10/100 MBit
Diagnostics LEDs	1 x Power, 2 x LAN, 1 x K-Bus, 1 x Flash-Zugriff
Clock	internal battery-backed clock for time and date
Operating system	Microsoft Windows CE
Control software	TwinCAT-CE-PLC-Runtime or TwinCAT-CE-NC-PTP-Runtime
Power supply	<p>24 V_{DC} (-15%/+20%) To meet the UL requirements use a 4 A fuse or a power supply that has to satisfy <i>NEC class 2!</i></p> 
Dielectric strength	500 V _{rms} (supply/internal electronics)
I/O connection	K-bus (Bus Terminals)
NOVRAM	128 kByte
I/O-DPRAM	4 kByte
Power supply I/O terminals	2 A
Max. power loss	6 W (including CX9000-xxxx system interfaces)
Dimensions (W x H x D)	59 mm x 100 mm x 91 mm
weight	ca. 250 g
Operating / storage temperature	0° C ... +50° C / -25° C ... +85° C
Relative humidity	95% no condensation
Vibration/shock resistance	conforms to EN 60068-2-6 / EN 60068-2-27/29
EMC resistance burst/ESD	conforms to EN 61000-6-2/EN 61000-6-4
Protection class	IP 20