



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx DEK 17.0020X

Issue No: 0

Certificate history:

Issue No. 0 (2017-05-08)

Status: **Current**

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Date of Issue: **2017-05-08**

Applicant: **Beckhoff Automation GmbH & Co. KG**
Hülsthorstweg 20
33415 Verl
Germany

Equipment: **Embedded PC Series CX8000**

Optional accessory:

Type of Protection: **Ex nA and Ex tc**

Marking:

Ex nA IIC T4 Gc and
Ex tc IIIC T135 °C Dc

*Approved for issue on behalf of the IECEx
Certification Body:*

R. Schuller

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA Certification B.V.
Meander 1051,
6825 MJ Arnhem
The Netherlands





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Manufacturer: **Beckhoff Automation GmbH & Co. KG**
Hülsthorstweg 20
33415 Verl
Germany

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[NL/DEK/ExTR16.0047/01](#)

Quality Assessment Report:

[DE/BVS/QAR16.0010/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Embedded PC Series CX8000 for use in I/O and Fieldbus systems.

The type code, the ambient temperature range and the temperature class of the modules shall be taken from Table 1, see Annex.

Electrical data

The electrical data of the supply and the input and output circuits shall be taken from Table 1, see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

For Ex nA:

The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

The equipment shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to IEC 60079-15, taking into account the environmental conditions under which the equipment is used.

Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.

For Ex t:

The equipment shall be installed in a suitable enclosure providing a degree of protection of IP54 according to IEC 60079-31 for group IIIA or IIIB and IP6X according to IEC 60079-31 for Group IIIC, taking into account the environmental conditions under which the equipment is used.

Annex:

[DEK 17.0020X - issue 0 - ExTR16.0047-01.pdf](#)

**Annex 1 to Certificate of Conformity IECEx DEK 17.0020X, issue 0 /
Testreport NL/DEK/ExTR16.0047/01**

Table 1

Description	Type/Beckhoff.	Temp. code	Ambient Range	Technical Data	Supply Volt.
CX8010 Embedded PC for EtherCAT (slave)	CX8010	T4	-25...+60°C	----	24Vdc
CX-Ethernet CPU 400MHz 64MB RAM SUSV	CX8000.5-V1	T4	-25...+60°C	----	----
CX Ethernet Interface 3xRJ45, 1xDIP	CX8095.1-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc
CX8030 Embedded PC for EtherCAT (slave)	CX8030	T4	-25...+60°C	----	24Vdc
CX-PB/CAN/DN CPU 400MHz 64MB RAM SUSV	CX8000.5-V3	T4	-25...+60°C	----	----
CX PROFIBUS Interface	CX8031.2-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc
CX8031 Embedded PC for PROFIBUS-DP (slave)	CX8031	T4	-25...+60°C	----	24Vdc
CX-PB/CAN/DN CPU 400MHz 64MB RAM SUSV	CX8000.5-V3	T4	-25...+60°C	----	----
CX PROFIBUS Interface	CX8031.2-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc
CX8051 Embedded PC for CANopen (slave)	CX8050	T4	-25...+60°C	----	24Vdc
CX-PB/CAN/DN CPU 400MHz 64MB RAM SUSV	CX8000.5-V3	T4	-25...+60°C	----	----
CX CANopen Interface D-Sub S9	CX8051.0-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc
CX8051 Embedded PC for CANopen (slave)	CX8051	T4	-25...+60°C	----	24Vdc
CX-PB/CAN/DN CPU 400MHz 64MB RAM SUSV	CX8000.5-V3	T4	-25...+60°C	----	----
CX CANopen Interface D-Sub S9	CX8051.0-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc
CX8080 Embedded PC for RS232/RS485	CX8080	T4	-25...+60°C	----	24Vdc
CX-PB/CAN/DN CPU 400MHz 64MB RAM SUSV	CX8000.5-V3	T4	-25...+60°C	----	----
RS232/RS485 Interface EK/CX8000	CX8080.1	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc
CX8090 Embedded PC for Ethernet	CX8090	T4	-25...+60°C	----	24Vdc
CX-PB/CAN/DN CPU 400MHz 64MB RAM SUSV	CX8000.5-V3	T4	-25...+60°C	----	----
CX Ethernet Interface 3xRJ45, 1xDIP	CX8031.2-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc
CX8091 BACnet/IP and OPC UA	CX8091	T4	-25...+60°C	----	24Vdc
CX-Ethernet CPU 400MHz 64MB RAM SUSV	CX8000.5-V1	T4	-25...+60°C	----	----
CX Ethernet Interface 3xRJ45, 1xDIP	CX8095.1-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc

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CX8093 Embedded PC for PROFINET RT (device)	CX8093	T4	-25...+60°C	----	24Vdc
CX-Ethernet CPU 400MHz 64MB RAM SUSV	CX8000.5-V1	T4	-25...+60°C	----	----
CX Ethernet Interface 3xRJ45, 1xDIP	CX8095.1-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc
CX8095 Embedded PC for EtherNet/IP (slave)	CX8095	T4	-25...+60°C	----	24Vdc
CX-Ethernet CPU 400MHz 64MB RAM SUSV	CX8000.5-V1	T4	-25...+60°C	----	----
CX Ethernet Interface 3xRJ45, 1xDIP	CX8095.1-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc
CX8097 Embedded PC for Sercos III	CX8097	T4	-25...+60°C	----	24Vdc
CX-Ethernet CPU 400MHz 64MB RAM SUSV	CX8000.5-V1	T4	-25...+60°C	----	----
CX Ethernet Interface 3xRJ45, 1xDIP	CX8095.1-V2	T4	-25...+60°C	----	----
E-/K-Bus Verbinder	CX8003_1	T4	-25...+60°C	----	----
Netzteil Starter-Klemme CX8000	CX5125.7-V2	T4	-25...+60°C	----	24Vdc