



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEX ETL 20.0070X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2021-03-25

Applicant: **Xinhua Control Engineering Co., Ltd.**
160 Wenjing Road
Minhang District
Shanghai ZIP 200245
China

Equipment: **Programmable Control and I/O Modules**

Optional accessory:

Type of Protection: **Increased Safety'ec', Sealed Device'nC'**

Marking: Ex ec nC IIC T4 Gc
-20°C to +50°C
IECEX ETL 20.0070X

Approved for issue on behalf of the IECEx
Certification Body:

Kevin J. Wolf

Position:

Certification Officer

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 www.iecex.com or use of this QR Code.



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Intertek
3933 US Route 11 South
Cortland NY 13045-2995
United States of America

intertek



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Manufacturer: **Xinhua Control Engineering Co., Ltd.**
160 Wenjing Road
Minhang District
Shanghai ZIP 200245
China

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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:

[US/ETL/ExTR21.0014/00](#)

Quality Assessment Report:

[GB/SIR/QAR21.0002/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The products covered by this report are the programmable logic control modules, Analog Input Modules, Analog Output Modules, Digital Input Modules, Digital Output Modules, Valve Position Control Modules, Speed Measurement Modules, Extension Modules, Logic Modules and Relay Modules. All the models are intended to be mounted in the panel (by others, this report does not cover any panel) and intended to be operated and communicated with other. The modules are intended for industrial process control and data communication. All modules are intelligent data acquisition and processing module.

All modules listed below:

MPU55-CBACN, MPU56-CBACN, MPU57-CBACN, MAI50-CBACN, MAI51-CBACN, MAI52-CBACN, MAI53-CBACN, MAI54-CBACN, MHT50-CBACN, MAO50-CBACN, MHO50-CBACN, MDI50-CBACN, MDI50A-CBACN, MDI52-CBACN, MDI53-CBACN, MDO53-CBACN, MDO55-CBACN, MVP50-CBACN, MVP51-CBACN, MVP52-CBACN, MVP53-CBACN, BVP53-CBACN, MSP50-CBACN, MSP51-CBACN, MCD50-CBACN, MCD51-CBACN, MLP50-CBACN, BLP50-CBACN, 2003-CBACN, TCBT-CBACN, TCBB-CBACN, SDO60-CBACN, BSDO60-CBACN, SPU60-CBACN, BSPU60-CBACN, SAI60-CBACN, BSAI60-CBACN, SDI60-CBACN, BSDI60-CBACN

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Programmable Control and I/O Modules shall be installed in a suitable IECEx certified Ex e, and minimum ingress protection IP54 enclosure as per the instructions, parts, and specifications provided in Service Manual.
2. The end use enclosure shall be tool secured and shall not be opened in the presence of ignitable concentration of explosive gas atmosphere and do not connect/ disconnect this device unless the power has been switched off or the area is deemed to be non-hazardous. Grounding/Bonding wire shall be provided.
3. The Programmable Control and I/O Modules shall only be powered by a secondary circuit not exceeding 24V.

Annex:

[104403637DAL - Annex for IECEx ETL 20.0070X Issue 0.pdf](#)



Annex to IECEX Certificate of Conformity

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Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
NEXUS ONCORE IECEX LABELS, SMALL	154M6671	N/A	2021-02-12
EXPLOSION HAZARD LABEL	153M5148	N/A	2021-01-07
NEXUS ONCORE MODULE IECEX LABELS	152M7204	A	2021-02-12
Nexus OnCore Modules ATEX/IECEX/UL/CAN Manual Addendum	NCM10080	A	January 2021
2oo3 Relay Board	2003-BBACN	N/A	11/30/2020
BLP 50	BLP50-BBACN	N/A	11/19/2020
BSAI60	BSAI60-BBACN	N/A	12/01/2020
BSDI60	BSDI60-BBACN	N/A	12/01/2020
BSDO60	BSDO60-BBACN	N/A	12/01/2020
BSPU60	BSPU60-BBACN	N/A	12/01/2020
BVP53	BVP53-BBACN	N/A	11/30/2020
MAI50	MAI50-BBACN	N/A	11/19/2020
MAI51	MAI51-BBACN	N/A	11/19/2020
MAI52	MAI52-BBACN	N/A	11/19/2020
MAI53	MAI53-BBACN	N/A	11/19/2020
MAI54	MAI54-BBACN	N/A	11/19/2020
MAO50	MAO50-BBACN	N/A	11/19/2020
MCD50	MCD50-BBACN	N/A	11/19/2020
MCD51	MCD51-BBACN	N/A	11/19/2020
MDI50A	MDI50A-BBACN	N/A	2020/12/01
MDI50	MDI50-BBACN	N/A	2020/12/01
MDI52	MDI52-BBACN	N/A	2020/12/01
MDI53	MDI53-BBACN	N/A	2020/12/01
MDO53	MDO53-BBACN	N/A	2020/12/01
MDO55	MDO55-BBACN	N/A	2020/12/01
MHO50	MHO50-BBACN	N/A	11/19/2020
MHT50	MHT50-BBACN	N/A	11/19/2020
MLP 50	MLP50-BBACN	N/A	11/30/2020
SOC CONTROLLER	MPU55-BBACN	N/A	11/19/2020
ICFC DEH MSP50	MSP50-BBACN	N/A	11/30/2020
MVP50	MVP50-BBACN	N/A	11/30/2020
MVP53	MVP53-BBACN	N/A	11/30/2020
SAI60	SAI60-BBACN	N/A	12/01/2020
SDI60	SDI60-BBACN	N/A	12/01/2020
SDO60	SDO60-BBACN	N/A	12/1/2020
SPU60	SPU60-BBACN	N/A	12/01/2020
TCB_BOTTOM	TCBB-BBACN	N/A	12/01/2020
TCB_TOP	TCBT-BBACN	N/A	12/01/2020



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Required Manufacturer Routine Testing

Routine Electric Strength Test per Clause 7.1 of IEC 60079-7: 2017:

A routine electric strength test will be required between the connector pins and the enclosure of fully assembly system. A test voltage of 500V r.m.s. or 700VDC is to be applied for 60s and no breakdown of insulation or separation shall occur. Alternatively, a test shall be carried out at 1.,2 times the test voltage, but maintained for at least 100 ms.

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intertek
Total Quality. Assured.

Intertek Testing Services NA, Inc.
3933 US Route 11 South, Cortland,
NY 13045, U.S.A.

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SFT-IECEX-OP-19f (26 October 2018)