



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 BAS 12.0022U Issue No: 0 Certificate history:
Issue No. 0 (2013-06-20)

Status: **Current** Page 1 of 3

Date of Issue: **2013-06-20**

Applicant: **GE Intelligent Platforms**
2500 Austin Drive
Charlottesville
Virginia 22911
United States of America

Electrical Apparatus: **87XX Module Carriers**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **[Ex ia Ga] (-40°C ≤ Ta ≤ +70°C)**
[Ex ia Da] (-40°C ≤ Ta ≤ +70°C)

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

General 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:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEx Certificate of Conformity

Certificate No: IECEx BAS 12.0022U Issue No: 0

Date of Issue: 2013-06-20 Page 2 of 3

Manufacturer: **GE Intelligent Platforms**
2500 Austin Drive
Charlottesville
Virginia 22911
United States of America

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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*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:

[GB/BAS/ExTR12.0027/00](#)

Quality Assessment Report:

[GB/FME/QAR11.0010/03](#)



IECEx Certificate of Conformity

Certificate No: IECEx BAS 12.0022U

Issue No: 0

Date of Issue: 2013-06-20

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The 87xx Module Carriers are designed to house a number of certified I/O Modules, the 8720-CA-04 Carrier holding up to four modules and the 8727-CA-08 & 8729-CA-08 Carriers holding up to eight modules.

The carriers consist of a printed circuit board mounted on top on a moulded plastic enclosure. Modules are mounted on the printed circuit board via a connector and are mechanically locked into position. Connection to the hazardous area circuitry is made via 862x Field IS Terminals which attach to the top of the carrier. Multi-pin connectors allow the carrier to be connected to other certified carriers. The left hand connector has a male and the right hand connector has a female arrangement which prevents the connection of uncertified carriers which have been designed with the opposite orientation. The carrier has a multi-terminal connector on the front edge to allow a common connection of the field terminal screens.

The carrier interconnects with other carrier units and provides a galvanically isolated, voltage clamped source of 18V, with a prospective current of 85A from up to ten IS System Power Supplies which power the I/O modules attached to the carrier. The carriers also provide data rail-bus connections between the I/O Modules and the certified Railbus Isolator. The interconnection of carriers may be split using an 8030 Right-hand and 8031 Left-hand IS Carrier Extender together with certified Power and Data Extension Cables.

The 8720-CA-04 Carrier has provision for a single connector on the rear edge, intended for the connection of suitable earth leakage protection circuitry, with the 8727-CA-08 & 8729-CA-08 carriers having two such connectors. The connection of external equipment to these sockets has not been considered. The 8727-CA-08 & 8729-CA-08 Carriers differ in the Railbus addressing mechanism, with the 8727-CA-08 Carrier having 32-bit Addressing mechanism, where as the 8729-CA-08 Carrier has a 64-bit Addressing mechanism.

Schedule of Limitations

1. The 87xx Module Carriers must be installed with either a complete set of I/O modules or 8420-BK-MO Module Blanking Covers such that the carrier has a degree of protection of at least IP20.
2. This module must be segregated from any other Non-IS or IS circuits, by the requirements of Table 5 of IEC 60079-11: 2011.

CONDITIONS OF CERTIFICATION: NO