

TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Type Examination Certificate Number: **DEMKO 17 ATEX 1862X Rev. 3**

Product: **PACSystems RX3i Series Modules**

Manufacturer: **Intelligent Platforms LLC**

Address: **2500 Austin Drive, Charlottesville, VA 22911 USA**

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **4789090987.4.1**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

EN 60079-7:2015

except in respect of those requirements listed at item 18 of the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

The marking of the product shall include the following:

II 3 G Ex ec IIC T* Gc

(see Description of Product for T-code)

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2017-07-31

Re-issued: 2019-08-02

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 17 ATEX 1862X Rev. 3

Description of Product:

| Cat. No. | Description |
|---|----------------------------------|
| IC695RMX128 | Fiber Optic Communication Module |
| IC695CMX128 | Fiber Optic Communication Module |
| IC695RMX228 | Fiber Optic Communication Module |
| IC695CHS007 | Chassis base 7 slot |
| IC695CHS012 | Chassis base 12 slot |
| IC695CHS016 | Chassis base 16 slot |
| IC695PSA040 | AC Power Supply |
| IC695PSA140 | AC Power Supply |
| IC695PSD040 | DC Power Supply |
| IC695PSD140 | DC Power Supply |
| IC695MDL765 | Output Module |
| IC695MDL664 | Input Module |
| IC695LRE001 | Legacy Expansion Module |
| IC695ETM001 | Ethernet Module |
| IC695EDS001 | Ethernet Module |
| IC695EIS001 | Ethernet Module |
| IC695CPE302 | Single Wide CPU Module |
| IC695CPE305 | Single Wide CPU Module |
| IC695CPE310 | Double Wide CPU Module |
| IC695NIU001 | Double Wide CPU Module |
| IC695CPE330 | Double Wide CPU Module |
| IC695ACC400 | Energy Pack |
| IC695ACC401 | Energy Pack |
| IC695ACC402 | Standalone Energy Packs |
| IC695ACC403 | Standalone Energy Packs |
| IC695ACC412 | Standalone Energy Packs |
| IC695ACC413 | Standalone Energy Packs |
| IC695PNS001 | Communication Module |
| IC695PNS101 | Communication Module |
| IC695PNC001 | Communication Module |
| IC695ECM850 | Communication Module |
| IC695ECS850 | Communication Module |
| IC695CBL001, IC695CBL002, IC695CBL002 | Accessory Cable |

For all Cat. Nos., except for Cat. Nos. IC695RMX128, IC695CMX128, IC695RMX228, IC695PNS001, IC695PNC001, IC695ECM850 the optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.

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Temperature range:

| Cat. No. | Ambient Temperature Range | Temperature Class |
|-------------|---------------------------|-------------------|
| IC695RMX128 | 0°C ≤ Ta ≤ 60°C | T5 |
| IC695CMX128 | 0°C ≤ Ta ≤ 60°C | T5 |
| IC695RMX228 | 0°C ≤ Ta ≤ 60°C | T5 |
| IC695CHS007 | 0°C ≤ Ta ≤ 60°C | T6 |
| IC695CHS012 | 0°C ≤ Ta ≤ 60°C | T6 |
| IC695CHS016 | 0°C ≤ Ta ≤ 60°C | T6 |
| IC695PSA040 | 0°C ≤ Ta ≤ 60°C | T3 |
| IC695PSA140 | 0°C ≤ Ta ≤ 60°C | T3 |
| IC695PSD040 | 0°C ≤ Ta ≤ 60°C | T3 |
| IC695PSD140 | 0°C ≤ Ta ≤ 60°C | T3 |
| IC695MDL765 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695MDL664 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695LRE001 | 0°C ≤ Ta ≤ 60°C | T6 |
| Cat. No. | Ambient Temperature Range | Temperature Class |
| IC695ETM001 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695EDS001 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695EIS001 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695CPE302 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695CPE305 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695CPE310 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695NIU001 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695CPE330 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695ACC400 | 0°C ≤ Ta ≤ 60°C | T6 |
| IC695ACC401 | 0°C ≤ Ta ≤ 60°C | T6 |
| IC695ACC402 | 0°C ≤ Ta ≤ 70°C | T4 |
| IC695ACC403 | 0°C ≤ Ta ≤ 70°C | T4 |
| IC695ACC412 | 0°C ≤ Ta ≤ 70°C | T4 |
| IC695ACC413 | 0°C ≤ Ta ≤ 70°C | T4 |
| IC695PNS001 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695PNS101 | | |
| IC695PNC001 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695ECM850 | 0°C ≤ Ta ≤ 60°C | T4 |
| IC695ECS850 | | |

Electrical data

| Cat. No. | Input Ratings | Output Ratings |
|-------------|--|---|
| IC695RMX128 | Backplane: 3.3/5 Vdc, 0.57A @ 3.3Vdc/0.21A @ 5Vdc | Fiber Optic Cable |
| IC695CMX128 | Backplane: 3.3/5 Vdc, 0.57A @ 3.3Vdc/0.21A @ 5Vdc | Fiber Optic Cable |
| IC695RMX228 | Backplane: 3.3/5 Vdc, 0.57A @ 3.3Vdc/0.21A @ 5Vdc | Fiber Optic Cable |
| IC695CHS007 | Backplane: 3.3/5.1/18-30 Vdc | Low voltage, limited energy Field Output: 3.3/5.1/18-30VDC |
| IC695CHS012 | Backplane: 3.3/5.1/18-30 Vdc | Low voltage, limited energy Field Output: 3.3/5.1/18-30VDC |
| IC695CHS016 | Backplane: 3.3/5.1/18-30 Vdc | Low voltage, limited energy Field Output: 3.3/5.1/18-30VDC |
| IC695PSA040 | 85-264 VAC 70W | 40W max |
| IC695PSA140 | 85-264 VAC 70W | 40W max |
| IC695PSD040 | 19.2-28.8 VDC 60W | 40W max |
| IC695PSD140 | 18 – 30 VDC 60W | 40W max, Total for both outputs |

Schedule

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| Cat. No. | Input Ratings | Output Ratings |
|----------------------------|---|--|
| IC695MDL664 | Backplane: 5VDC @ 0.2 A 3.3 VDC @ 0.13 A Input Ratings At Surrounding Air Temperature of 60°C: 16 points up to 24V @ 0.012 A per point 8 points up to 32V @ 0.012 A per point At Surrounding Air Temperature of 50°C: 16 points up to 32V @ 0.012 A per point | - |
| IC695LRE001 | Backplane 3.3/5.1 Vdc | Field Output: 3.3/5.1 Vdc |
| IC695ETM001 | Backplane 3.3/5.1 Vdc | - |
| Cat. No. | Input Ratings | Output Ratings |
| IC695EDS001 | Backplane 3.3/5.1 Vdc | - |
| IC695EIS001 | Backplane 3.3/5.1 Vdc | - |
| IC695CPE302 | 5VDC @ 1.6A/3.3Vdc @ 0.9A (Supplied by 24 Vdc Backplane) | - |
| IC695CPE305 | 5VDC @ 1.6A/3.3Vdc @ 0.9A (Supplied by 24 Vdc Backplane) | - |
| IC695CPE310 | 5VDC @ 1.6A/3.3Vdc @ 0.9A (Supplied by 24 Vdc Backplane) | - |
| IC695NIU001 | 5VDC @ 1.6A/3.3Vdc @ 0.9A (Supplied by 24 Vdc Backplane) | - |
| IC695CPE330 | Backplane: 18-30 Vdc, 1A | - |
| IC695ACC400 | 7VDC @ 2.5A/3.3Vdc @ 2mA | - |
| IC695ACC401 | 7VDC @ 2.5A/3.3Vdc @ 2mA | - |
| IC695ACC402 | Backplane: 18-30 Vdc | Output 24V dc, 2.3A, 40W Limited Voltage/Current |
| IC695ACC403 | Backplane: 18-30 Vdc | Output 24V dc, 2.3A, 40W Limited Voltage/Current |
| IC695ACC412 | Backplane: 18-30 Vdc | Output 24V dc, 2.3A, 40W Limited Voltage/Current |
| IC695ACC413 | Backplane: 18-30 Vdc | Output 24V dc, 2.3A, 40W Limited Voltage/Current |
| IC695PNS001 IC695PNS101 | Backplane Power Input: 3.3/5.1 Vdc at 1.2/1.5 A max. | Low voltage, limited Energy |
| IC695PNC001 | Backplane Power Input: 3.3/5.1 Vdc at 1.2/1.5 A max. | Low voltage, limited Energy |
| IC695ECM850 IC695ECS850 | Backplane Power Input: 3.3/5.1 Vdc at 1.2/1.5 A max. | Low voltage, limited Energy |

Routine tests:
None required.

- [16] Descriptive Documents
The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

- [17] Special Conditions of Use:
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.
 - The equipment shall be installed in only accessible with the use of a tool and that provides a degree of protection not less than IP 54 in accordance with EN 60079-0 and EN 60079-7.
 - Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.

- [18] Essential Health and Safety Requirements
The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information
None