



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 UL 19.0110X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2020-11-11)
Date of Issue:	2021-04-12		Issue 2 (2020-09-17)
			Issue 1 (2020-04-28)
			Issue 0 (2020-03-06)
Applicant:	Intelligent Platforms LLC 2500 Austin Drive Charlottesville, VA 22911 United States of America		
Equipment:	Open Type Industrial PC (IPC) and Panel Mount Industrial PC with or without Displays		
Optional accessory:	Industrial Display and IPC DIN Rail Mounting Bracket Kit		
Type of Protection:	Increased Safety "ec", Dust Ignition Protection by Enclosure "tc"		
Marking:	Ex ec IIC T4 Gc Ex tc IIIC T80°C Dc -20°C to +65°C		

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

2021-04-12

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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.



Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Intelligent Platforms LLC**
2500 Austin Drive
Charlottesville, VA 22911
United States of America

Additional manufacturing locations: **Aplex Technology Inc**
2F., No.249, Jian 1st Rd.
Zhonghe Dist., New Taipei City
23553
Taiwan

Aplex Technology Inc.
15F-1, No. 186, Jian Yi Road, Zhonghe Dist.,
New Taipei City
Taiwan

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 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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 Reports:

[US/UL/ExTR19.0126/00](#)
[US/UL/ExTR19.0126/03](#)

[US/UL/ExTR19.0126/01](#)
[US/UL/ExTR19.0126/04](#)

[US/UL/ExTR19.0126/02](#)

Quality Assessment Reports:

[DE/TUR/QAR16.0005/04](#)

[GB/FME/QAR19.0017/01](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

These devices are panel mount industrial computers (IPC) or Human Machine Interface (HMI) Industrial Display Products when mated with the display. The IPC's are open-type PC's utilizing a programmable memory for internal storage of user-oriented instructions for controlling various industrial equipment through digital or analog inputs or outputs. The IPC's are intended for mounting inside a suitable enclosure. The HMI products, IPC with displays, are intended for through-panel mounting in an enclosure for industrial control applications; they feature a touchscreen displays of various sizes.

Ex ec IIC T4 Gc is for R2L0N series only.

Ex ec IIC T4 Gc and Ex tc IIIC T80°C Dc are for all models EXCEPT R2L0N series and they must use with display accessory IC758C series for "tc" marking.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- For Gas Group IIC, open type equipment shall be installed in an enclosure with a tool removable door or cover that provides a degree of protection not less than IP 54 in accordance with IEC 60079-0.
- Equipment with displays shall be installed on the flat surface of an end equipment enclosure with tool removable door or cover that provides a degree of protection not less than IP 64 in accordance with IEC 60079-0.
- Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 140%.
- Equipment with a 7 inch display must be installed in a low risk mechanical danger environment.
- For all models EXCEPT R2L0N series, must use with display accessory IC758C series for "tc" marking.
- For Dust Group IIIC, the product shall be installed through an EPL Dc end-equipment enclosure for the applicable Dust Group IIIC, Temperature classification, T80°C and provide a degree of protection not less than IP 64 in accordance with IEC 60079-0.
- Panel wall thickness, 16 to 7 Gauge (1.6 to 5mm).
- Panel cutout dimensions(mm) must be within ± 0.5 mm, 7 Inch Display - 183.5 x 128.5; 10 Inch Display - 255.5 x 174; 12 Inch - 317 x 214.5; 15 Inch - 398 x 245.5; 19 Inch - 482 x 297; 24 Inch - 581 x 360.
- Torque specification for clamps screws, 13 to 13.9 in-lbs. (15 to 16kgf-cm).
- Gasketed joints shall not be opened or used as an access door to the end equipment enclosure.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Adds alternate gasket material for the display.

Issue 2: Adds RXi2-LP IPC DIN Rail Mounting Bracket Accessory Kit; Part No. R2LACCSDINMNT.

Issue 3: Addition of suffixes for RXi Panel IPC with Display Series Designation IC758 Series; addition of suffix for the Customer Software; deleted series models that are not intended to be sold as open types.

Issue 4: Updated the conditions of use for 'tc' protection for open type equipment.

Annex:

[Annex to IECEx UL 19.0110X Issue 4.pdf](#)



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TYPE DESIGNATION

Open Type Industrial PC (IPC) without Display –

RXi2 – Industrial PC; Part No. R2L0N, followed by 1 or 2, followed by A or B, followed by any number 0-9, followed by A, B, C, D, or E, followed by D or blank.

Panel Mount Industrial PC with Display -

RXi – Panel PC, Industrial PC with display; Part No. IC758, followed by C or R, followed by S or O, followed by S or W, followed by A, B, or C, followed by 07, 10, 12, 15, 19, or 24, followed by PC or PCX, may be followed by 64, 128, 256 or 512, followed by any letter A-Z or Blank.

RXi – Web HMI Panel, Industrial PC with display; Part No. IC757, followed by C or R, followed by S or O, followed by S or W, followed by 07, 10, 12, 15, 19, or 24, followed by WHMI, followed by any letter A-Z or Blank.

RXi – Industrial Monitor, Industrial PC with display; Part No. IC756, followed by C or R, followed by S or O, followed by S or W, followed by 07, 10, 12, 15, 19, or 24, followed by IM.

QuickPanel-XP View, Industrial PC with display: Part No IC760, followed by C or R, followed by S or O, followed by S or W, followed by 07, 10, 12, 15, 19, or 24, followed by CDA, followed by any letter A-Z or Blank.

QuickPanel-XP View & Control, Industrial PC with display: Part No. IC761, followed by C or R, followed by S or O, followed by S or W, followed by 07, 10, 12, 15, 19, or 24, followed by CON, followed by any letter A-Z or Blank.

QuickPanel+ Industrial PC with display: Part No. IC755, followed by C or R, followed by S or O, followed by S or W, followed by 07, 10, 12, 15, 19, or 24, followed by CDA or CDB, followed by any letter A-Z or Blank.

LISTED ACCESSORIES:

RXi – Industrial Display; Part No. IC758C, followed by O or S, followed by W, followed by 07, 10, 12, 15, 19, or 24, followed by SCREEN.

RXi2-LP IPC DIN Rail Mounting Bracket Kit; Part No. R2LACCSDINMNT

Note: Model numbers may be followed by a “-”, followed by any Alphanumeric characters not impacting product safety.



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NOMENCLATURE:

R2L0N	1	A	1	A	D
I	II	III	IV	V	VI

I. RXi2 – Industrial PC Series Designation – R2L0N

II. RAM Memory Size

1: 4GB DDR3

2: 8GB DDR3

III. Processor type

A: Dual core 1GHZ

B: Quad core 1.2GHz

IV. Operating System

0: No OS

1: Windows OS

2: Ubuntu Server with PACEdge Software

3-9: Reserved for custom OS

V. SSD Size

A: 32GB

B: 64GB

C: 128GB

D: 256GB

E: 512GB

VI. Mounting

Blank: Wall Mounting (Internal to Enclosure only)

D: DIN Rail Mounting



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IC758	C	S	W	A	24	PC	64	A
I	II	III	IV	V	VI	VII	VIII	IX

I. RXi – Panel IPC with Display Series Designation – IC758

II. System type
C: Complete system
R: Replacement/upgrade backing (no display provided)

III. Screen Type
S: Standard Emerson Bezel
O: Outdoor SLR Emerson Bezel

IV. Screen Configuration
S: Standard Aspect Ratio
W: Widescreen

V. RAM Memory Size
A: 4GB
B: 8GB
C: 16GB

VI. Screen Size
07: 7 inch
10: 10.4 inch
12: 12.1 inch
15: 15 inch
19: 18.5 inch
24: 24 inch

VII. Processor–
PC: Standard
PCX: Ryzen



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VIII. SSD Size

Blank: 32GB

64: 64GB

128: 128GB

256: 256GB

512: 512GB

IX. Customer Software

A-Z: Any alpha character depicting customer specified software

Blank: Standard pre-loaded software

IC756	C	S	W	24	IM
I	II	III	IV	V	VI

I. RXi - Industrial Monitor Series, IPC with display Designation – IC756

II. System type

C: Complete

R: Replacement/upgrade backing (no display provided)

III. Screen Type

S: Standard Emerson Bezel

O: Outdoor SLR Emerson Bezel

IV. Screen Configuration

S: Standard Aspect Ratio

W: Widescreen

V. Screen Size

07: 7 inch

10: 10.4 inch

12: 12.1 inch

15: 15 inch

19: 18.5 inch

24: 24 inch

VI. Panel - IM



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IC757	C	S	W	24	WHMI	A
I	II	III	IV	V	VI	VII

I. RXi - Web HMI Panel, IPC with display Series Designation – IC757

II. System type

C: Complete

R: Replacement/upgrade backing (no display provided)

III. Screen Type

S: Standard Emerson Bezel

O: Outdoor SLR Emerson Bezel

IV. Screen Configuration

S: Standard Aspect Ratio

W: Widescreen

V. Screen Size

07: 7 inch

10: 10.4 inch

12: 12.1 inch

15: 15 inch

19: 18.5 inch

24: 24 inch

VI. Panel - WHMI

VII. Customer Software

A-Z: Any alpha character depicting customer specified software

Blank: Standard pre-loaded software

IC760	C	S	W	24	CDA	A
I	II	III	IV	V	VI	VII

I. QuickPanel-XP View, IPC with display Series Designation – IC760

II. System type

C: Complete

R: Replacement/upgrade backing (no display provided)



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- III. Screen Type
S: Standard Emerson Bezel
O: Outdoor SLR Emerson Bezel
- IV. Screen Configuration
S: Standard Aspect Ratio
W: Widescreen
- V. Screen Size
07: 7 inch
10: 10.4 inch
12: 12.1 inch
15: 15 inch
19: 18.5 inch
24: 24 inch
- VI. CDA
- VII. Customer Software
A-Z: Any alpha character depicting customer specified software
Blank: Standard pre-loaded software

IC761	C	S	W	24	CDA	A
I	II	III	IV	V	VI	VII

- I. QuickPanel-XP View & Control, IPC with display Series Designation – IC761
- II. System type
C: Complete
R: Replacement/upgrade backing (no display provided)
- III. Screen Type
S: Standard Emerson Bezel
O: Outdoor SLR Emerson Bezel
- IV. Screen Configuration
S: Standard Aspect Ratio
W: Widescreen



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- V. Screen Size
07: 7 inch
10: 10.4 inch
12: 12.1 inch
15: 15 inch
19: 18.5 inch
24: 24 inch

VI. CON

- VII. Customer Software
A-Z: Any alpha character depicting customer specified software
Blank: Standard pre-loaded software

IC755	C	S	W	24	CDA	A
I	II	III	IV	V	VI	VII

I. QuickPanel+, IPC with display Series Designation – IC755

- II. System type
C: Complete
R: Replacement/upgrade backing (no display provided)

- III. Screen Type
S: Standard Emerson Bezel
O: Outdoor SLR Emerson Bezel

- IV. Screen Configuration
S: Standard Aspect Ratio
W: Widescreen

- V. Screen Size
07: 7 inch
10: 10.4 inch
12: 12.1 inch
15: 15 inch
19: 18.5 inch
24: 24 inch



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VI. CDA or CDB

VII. Customer Software

A-Z: Any alpha character depicting customer specified software

Blank: Standard pre-loaded software

IC758C S W 24 SCREEN

I II III IV V

I. Industrial Display Series Designation – IC758C

II. Screen Type

S: Standard Emerson Bezel

O: Outdoor SLR Emerson Bezel

III. Screen Configuration

W: Widescreen

IV. Screen Size

07: 7 inch

10: 10 inch

12: 12 inch

15: 15 inch

19: 19 inch

24: 24 inch

V. SCREEN



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PARAMETERS RELATING TO THE SAFETY

Series	Supply						IPC with Display Mounting	Tambient "Ta:"
Industrial PC: R2L0N	+24VDC $\pm 10\%$ +24VDC, 1.7 A, 43 W,						N/A	-20 to 65°C
RXi – Web HMI IPC w/ Display	+24VDC $\pm 10\%$, 1.5 A, 35 W max						IP66	-20 to 65°C
	7in	10in	12in	15in	19in	24in		
	5W, 0.21A	11W, 0.46A	17W, 0.71A	15W, 0.63A	19W, 0.79A	35W, 1.46A		
RXi – Industrial Monitor, IPC w/ Display	+24VDC $\pm 20\%$, 1.25 A, 30W max						IP66	-20 to 65°C
	7in	10in	12in	15in	19in	24in		
	5W, 0.21A	11W, 0.46A	17W, 0.71A	15W, 0.63A	22W, 0.92A	30W, 1.23A		
QuickPanel-XP View QuickPanel-XP View & Control QuickPanel+ RXi - Panel PC, IPC w/ Display	+24VDC $\pm 10\%$, 1.7 A, 43W max						IP66	-20 to 65°C
	7in	10in	12in	15in	19in	24in		
	14W, 0.56A	19W, 0.87A	19W, 0.72A	19W, 0.72A	19W, 0.72A	43W, 1.7A		
RXi – Panel PC with Ryzen	+24VDC $\pm 10\%$, 2.66A, 64W max						IP66	-20 to 65°C
	7in	10in	12in	15in	19in	24in		
	N/A	N/A	55W 2.3A (+- 10%)	55W 2.3A (+- 10%)	55W 2.3A (+- 10%)	64W 2.66A (+- 10%)		
RXi – Industrial Display (Accessory)	7in	10in	12in	15in	19in	24in	IP66	-20 to 65°C



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MARKING

MARKINGS REQUIREMENTS (the following IECEx elements are required to appear on product marking label):

1. Product catalogue number as defined in "Products covered"
2. For all models in the "Products covered" section EXCEPT R2L0N series
Ex ec IIC T4 Gc
Ex tc IIC T80C Dc
IECEx UL 19.0110X

For R2L0N series
Ex ec IIC T4 Gc
IECEx UL 19.0110X
3. Name and Address of MFG placing the product on the market
4. "SUPPLY" from electrical ratings section.
5. "Ta:" from electrical ratings section.
6. Serial number in text or barcode form.
7. 4-digit date code in text or barcode form.

Listed Accessory Marking: (the following IECEx elements are required to appear on product marking label):

1. Listee's name
2. Model Number
3. Maximum and Minimum Ambient Temperature (Ta or Tamb), -20C to 65C
4. Ex ec IIC T4 Gc
Ex tc IIC T80C Dc
For use with IECEx UL 19.0110X
5. Name and address of MFG placing the product on the market.
6. Serial number in text or barcode form.
7. 4-digit date code in text or barcode form.

ROUTINE EXAMINATIONS AND TESTS

Each piece of equipment defined above has to have successfully passed; before delivery:

- In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test on each equipment.