



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 UL 16.0047X

Issue No: 1

Certificate history:

[Issue No. 1 \(2018-06-29\)](#)

[Issue No. 0 \(2016-03-22\)](#)

Status: **Current**

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Date of Issue: **2018-06-29**

Applicant: **Schneider Electric France**
Site Horizon, 8ème rue, ZI Carros
F-06516 Carros
France

Equipment: **Magelis Box IPC Modular, Box iPC and Display Panel, HMIPCC, HMIBM, HMIDM Series**

Optional accessory:

Type of Protection: **Intrinsic Safety "ic", Non-sparking "nA", Dust Protection by Enclosure "tc"**

Marking:

Ex nA IIC T4 Gc

Ex ic nA IIC T4 Gc

Ex tc IIIC T135°C Dc

0°C ≤ Ta ≤ +55°C

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

Paul T. Kelly

Position:

Principal Engineer – Global Hazardous Locations

*Signature:
(for printed version)*

Date:

2018-06-29

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](#).

Certificate issued by:

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





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Manufacturer: **Schneider Electric France**
Site Horizon, 8ème rue, ZI Carros
F-06516 Carros
France

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

[US/UL/ExTR16.0051/01](#)

Quality Assessment Report:

[FR/INE/QAR10.0006/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Update text below based on PH response to ICPC FR comments:

Models HMIPCC Series are Touch Panel PC that shall be mounted in a suitable enclosure with a minimum ingress protection rating of at least IP54 in accordance with IEC 60079-15. They are provided with either a 4:3 15" or 15.6"W touch panel and Type A Box PC or Type B Box PC. The differences between Box PCs are size, CPU and number of expansion slot. The differences between panels are size, construction and touch function. Two optional DC fans and one optional USB expansion PCIE can be equipped with Type A Box PC. The front panels are evaluated and suitable for IP65.

The 4:3 15" panel is resistance type touch screen and meets intrinsically safe "ic". The 15.6"W panel is capacitance type touch screen. All non-sparking components are "nA". These devices are intended for indoor application only. These devices are intended to be front panel-mounted or installed in the end application with only the front touch panel accessible to the user.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

For Box iPC Modular Models HMIPCCx27xxD, HMIPCCx2JxxD and Display Panel Models HMIDM7421 and HMIDM7521:

- All front surfaces have been evaluated to the enclosure requirements for Ingress Protection to IP65 in accordance with IEC/EN 60079-15 and IEC 60079-31.
- The equipment shall only be used in an area of not more than pollution degree 2 as defined in IEC 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage at the supply terminals to the equipment.
- The equipment shall be mounted in an enclosure that provides a degree of protection not less than IP54 in accordance with IEC 60079-15 for category 3G Zone 2 or IP65 in accordance with IEC 60079-31 for category 3D Zone 22.
- Do not expose to direct sunlight or UV light source.
- Subject equipment must be installed in a low risk of mechanical danger environment.
- The display panels shall be installed and supplied by Box iPC, HMIBM model series.(For Display Panel only)

For Box iPC Modular Models HMIPCCx27xxA and HMIPCCx2JxxA:

- All front surfaces have been evaluated to the enclosure requirements for Ingress Protection to IP65 in accordance with IEC 60079-31.
- The equipment shall be mounted in an enclosure that provides a degree of protection not less than IP65 in accordance with IEC 60079-31 for category 3D Zone 22.
- Do not expose to direct sunlight or UV light source.
- Subject equipment must be installed in a low risk of mechanical danger environment.

For Box iPC Mod els HMIBM O, HMIBMU and HMIBMP :

- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP54 in accordance with IEC 60079-15.



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- The equipment shall only be used in an area of not more than pollution degree 2 as defined in IEC 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage at the supply terminals to the equipment.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: Adds models, changes company name.

Annex:

[Annex to IECEx UL 16.0047X Issue 1.pdf](#)



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TYPE DESIGNATION

Magelis Box iPC Modular, Box iPC and Display Panel, HMIPCC, HMIBM and HMIDM Series are embedded application ready platform for industrial application:

Product type:	Model Series:	Protection method	Description:
Box iPC Modular	HMIPCCx27xxD (See Nomenclature I for "x")	ic, nA tc	<ul style="list-style-type: none">HMIPCCx27xxD are industrial touch iPC which assembled with following Box iPC, HMIBMO, HMIBMU or HMIBMP and Display, HMIDM7421. <p>The device shall be mounted with a suitable enclosure with a minimum ingress protection rating of at least IP54 in accordance with EN 60079-15 for category 3G Zone 2 or IP65 in accordance with EN 60079-31 for category 3D Zone 22.</p>
	HMIPCCx27xxA (See Nomenclature I for "x")	tc	<ul style="list-style-type: none">HMIPCCx27xxA are industrial touch iPC which assembled with following Box iPC, HMIBMO, HMIBMU or HMIBMP and Display, HMIDM7421 and Accessory, AC power supply, HMIYMMAC1. <p>The device shall be mounted with a suitable enclosure with a minimum ingress protection rating of at least IP65 in accordance with EN 60079-31 for category 3D Zone 22.</p>
	HMIPCCx2JxxD (See Nomenclature I for "x")	nA tc	<ul style="list-style-type: none">HMIPCCx2JxxD are industrial touch iPC which assembled with following Box iPC, HMIBM and Display, HMIDM7521. <p>The device shall be mounted with a suitable enclosure with a minimum ingress protection rating of at least IP54 in accordance with EN 60079-15 for category 3G Zone 2 or IP65 in accordance with EN 60079-31 for category 3D Zone 22.</p>
	HMIPCCx2JxxA (See Nomenclature I for "x")	tc	<ul style="list-style-type: none">HMIPCCx2JxxA are industrial touch iPC which assembled with following Box PC, HMIBMO, HMIBMU or HMIBMP and Display, HMIDM7521 and Accessory, AC power supply, HMIYMMAC1. <p>The device shall be mounted with a suitable enclosure with a minimum ingress protection rating of at least IP65 in accordance with EN 60079-31 for category 3D Zone 22.</p>
Box iPC	HMIBMO HMIBMU HMIBMP (See Nomenclature II for suffix)	nA	<ul style="list-style-type: none">HMIBMO, HMIBMU and HMIBMP are open type Box iPC, <p>The device shall be installed in a suitable enclosure with a minimum ingress protection rating of at least IP54 in accordance with EN 60079-15.</p>
Display Panel	HMIDM7421	ic, nA tc	<ul style="list-style-type: none">HMIDM7421 is 4:3 15", resistance type touch panel which was evaluated and suitable for IP65 at front touch screens. <p>The device shall be mounted in a suitable enclosure with a minimum ingress protection rating at least IP54 in accordance with EN 60079-15 for category 3G Zone 2 or IP65 in accordance with EN 60079-31 for category 3D Zone 22.</p>
	HMIDM7521	nA tc	<ul style="list-style-type: none">HMIDM7521 is 15.6" Width, capacitance type touch panel which was evaluated and suitable for IP65 at front touch screens. <p>The device shall be mounted in a suitable enclosure with a minimum ingress protection rating of at least IP54 in accordance with EN 60079-15 for category 3G Zone 2 or IP65 in accordance with EN 60079-31 for category 3D Zone 22.</p>



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Optional Accessory:

Accessory type:	Model:	Description:
AC Power Supply	HMIYMMAC1	[Only used with Industrial Touch iPC models which are "tc" protection technique.] Input: 100-240 V ac, 50-60Hz, 1.8-0.9 A or 1.6-0.9 A max. Output: 24 V dc, 5.5 A max.
Fan Module	HMIYBFKT4BM11	[Only used with industrial Touch iPC models and Box iPC models] Rated 12 V dc, 684 mA max.

Nomenclature I: (Box iPC Modular)

HMIPCC	U	2	7	E	C	D	4	Y	N	ZZZZZ
I	II		III	IV	V	VI	VII	VIII	IX	X

- I. Prefix:
HMIPCC
- II. CPU Version:
L: ATOM (Optimized) (For Box PC Type E and Type F enclosure only)
U: Celeron 2980U (Universal) (For Box PC Type A and Type B enclosure only)
P: Haswell i7-4650U (Performance) (For Box PC Type A and Type B enclosure only)
- III. Display module:
7: 4:3 15" display panel, module HMIDM7421
J: 15.6"W display panel, module HMIDM7521
- IV. Combination of Box Type and modular:
C, D, J or U: Box PC Type A enclosure, 4 slots
B, E, F, G, H, J, L or M: Box PC Type B enclosure, 2 slots
1: Box PC Type F enclosure, 0 slot
2 or 4: Box PC Type E enclosure, 1 slot
- V. Expansion slot configuration:
B, C or 7: Base unit
F or W: Expansion USB board and Fans module (For Box PC Type A enclosure only)
- VI. Power source:
D: DC power source
A: AC power source



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- VII. RAM:
4: 4GB
8: 8GB
A: 16GB
- VIII. Operating system:
Y can be any character to represent operating system.
- IX. Storage type:
N: None
X: CFast
J or K: HDD
L, M or P: SSD
1, 2 or 3: M.2
- X. Combination of Interfaces, second storage type and software bundle:
Z can be any character to represent the combination.

Nomenclature II: (Box iPC)

HMIBM	P	H	I74	D	2	X	YY
I	II	III	IV	V	VI	VII	VIII

- I. Prefix:
HMIBM
- II. CPU Version:
O: ATOM (Optimized) (For Box PC Type E and Type F enclosure only)
U: Celeron 2980U (Universal) (For Box PC Type A and Type B enclosure only)
P: Hawell i7-4650U (Performance) (For Box PC Type A and Type B enclosure only)
- III. Storage type:
H: HDD
S: SSD
C: CFast
M: M.2
0: None



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- IV. CPU type:
A5D: Atom E3930
I74: Core i7-4650U
I29: Celeron 2980U
- V. Power supply:
D: DC power source
- VI. Combination of CPU and Expansion configuration:
2 or E: Base unit
4 or I : Expansion USB board and Fan module, HMIYBFT4BM11 (For Box PC Type A enclosure only)
- VII. Operating system:
X can be any character to represent operating system
- VIII. Combination of Interfaces, second storage type and software bundle:
Y can be any character to represent the combination

PARAMETERS RELATING TO THE SAFETY

Model Series:	Model Name Suffix:	Protection Technical:	Electrical Rating:
Box iPC Modular:			
HMIPCCU27xx HMIPCCP27xx (See Nomenclature I for "x")	Follow with "D"	ic, nA	Input: 24 Vdc, 4.2 A max.
		tc	
Follow with "A" (equipped with AC power supply, model HMIYMMAC1)		tc	Input: 100-240 Vac, 50-60Hz, 1.8-0.9 A max.
HMIPCCU2Jxx HMIPCCP2Jxx (See Nomenclature I for "x")	Follow with "D"	nA	Input: 24 Vdc, 4.2 A max.
		tc	
Follow with "A" (equipped with AC power supply, model HMIYMMAC1)		tc	Input: 100-240 Vac, 50-60Hz, 1.8-0.9 A max.
HMIPCCCL27xx (See Nomenclature I for "x")	Follow with "D"	ic, nA	Input 12 Vdc, 6 A max. or 24 Vdc, 2.62 A max.
		tc	
Follow with "A" (equipped with AC power supply, model HMIYMMAC1)		tc	Input 100-240 Vac, 50-60 Hz, 1.6-0.9 A max.
HMIPCCCL2Jxx (See Nomenclature I for "x")	Follow with "D"	nA	Input 12 Vdc, 6 A max. or 24 Vdc, 2.62 A max.
		tc	
Follow with "A" (equipped with AC power supply, model HMIYMMAC1)		tc	Input 100-240 Vac, 50-60 Hz, 1.6-0.9 A max.
Box iPC:			
HMIBMU HMIBMP	-	nA	Input: 24 Vdc, 4.2 A max.
HMIPMO	-	nA	Input 12 Vdc, 6 A max. or 24 Vdc, 2.62 A max.



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Display Panel:			
HMIDM7421	-	ic, nA	Input 12 Vdc
		tc	
HMIDM7521	-	nA	Input 12 Vdc

Optional Accessory:

Accessory type:	Model:	Electrical Rating:
AC Power Supply	HMIYMMAC1	[Only used with industrial touch iPC models which are "tc" protection technique.] Part number – TG14-0135-01 Input: 100-240 V ac, 50-60Hz, 1.8-0.9 A max. Output: 24 V dc, 5.5 A max.
		Part number – FSP132-1B48-C24 Input: 100-240 V ac, 50-60Hz, 1.8-0.9 A or 1.6-0.9 A max. Output: 24 V dc, 5.5 A max.
Fan Module	HMIYBFKT4BM11	[Only used with industrial Touch iPC models and Box PC models] Rated 12 V dc, 684 mA max.



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MARKING

Marking has to be readable and indelible; it has to include the following indications:

Box iPC Modular (DC):

HMIPCCCL27xxD series

Schneider Electric
施耐德电气(中国)有限公司
Schneider Electric
8EME RUE BAT HORIZON 06516
CARROS, FRANCE

Magelis iPC
Touch Panel Computer 微型计算机

CE, Ex, F-06516 CARROS, II 3G Ex Ic nA IIC T4 Gc IP65, II 3D Ex tc IIIC T135°C Dc IP65, DEMKO 16 ATEX 1676X, IECEx UL 16.0047X, 0°C ≤ Ta ≤ +55°C, Class I, Division 2, Group A,B,C and D, Temp. Code T4, Max Ambient 55°C, E486185, Rated Cable Temperature 79°C, PROG. CNTLR. FOR USE IN HAZ. LOC., SOWS, LISTED, I.T.E., E308655, 23BJ, LISTED, E486185, Rated Cable Temperature 79°C, PROG. CNTLR. FOR USE IN HAZ. LOC., SOWS

This device complies with Part 15 of the FCC rules: Operation is subject to be following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Model(型号): A
Display Box PC Optimized HDD DC Win 8.1 1Slot
DC Input(输入):
12VDC = 6A ; 24VDC = 2.62A
PV=01 RL=00 SV=1.0
T1 DOM 2013-28-3

HMIPCCCL2JxxD series

Schneider Electric
施耐德电气(中国)有限公司
Schneider Electric
8EME RUE BAT HORIZON 06516
CARROS, FRANCE

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CE, Ex, F-06516 CARROS, II 3G Ex Ic nA IIC T4 Gc IP65, II 3D Ex tc IIIC T135°C Dc IP65, DEMKO 16 ATEX 1676X, IECEx UL 16.0047X, 0°C ≤ Ta ≤ +55°C, Class I, Division 2, Group A,B,C and D, Temp. Code T4, Max Ambient 55°C, E486185, Rated Cable Temperature 79°C, PROG. CNTLR. FOR USE IN HAZ. LOC., SOWS, LISTED, I.T.E., E308655, 23BJ, LISTED, E486185, Rated Cable Temperature 79°C, PROG. CNTLR. FOR USE IN HAZ. LOC., SOWS

This device complies with Part 15 of the FCC rules: Operation is subject to be following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Model(型号): A
Display Box PC Optimized HDD DC Win 8.1 1Slot
DC Input(输入):
12VDC = 6A ; 24VDC = 2.62A
PV=01 RL=00 SV=1.0
T1 DOM 2013-28-3

HMIPCCU27xxD and HMIPCCP27xxD series

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This device complies with Part 15 of the FCC rules: Operation is subject to be following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Model(型号): A
Display Box PC Performance HDD DC Win 8.1 Slot
DC Input(输入):
24V DC = 4.2A
Safe Compass Distance:
Standard: 80 cm
Steering: 55 cm
PV=01 RL=00 SV=1.0
T1 DOM 2013-28-3

HMIPCCU2JxxD and HMIPCCP2JxxD series

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This device complies with Part 15 of the FCC rules: Operation is subject to be following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Model(型号): A
Display Box PC Performance HDD DC Win 8.1 Slot
DC Input(输入):
24V DC = 4.2A
Safe Compass Distance:
Standard: 80 cm
Steering: 55 cm
PV=01 RL=00 SV=1.0
T1 DOM 2013-28-3

Box iPC Modular (AC):

HMIPCCCL27xxA and HMIPCCCL2JxxA series

Schneider Electric
施耐德电气(中国)有限公司
Schneider Electric
8EME RUE BAT HORIZON 06516
CARROS, FRANCE

Magelis iPC
Touch Panel Computer 微型计算机

CE, Ex, F-06516 CARROS, II 3D Ex tc IIIC T135°C Dc IP65, DEMKO 16 ATEX 1676X, IECEx UL 16.0047X, 0°C ≤ Ta ≤ +55°C, Class I, Division 2, Group A,B,C and D, Temp. Code T4, Max Ambient 55°C, E486185, Rated Cable Temperature 79°C, PROG. CNTLR. FOR USE IN HAZ. LOC., SOWS, LISTED, I.T.E., E308655, 23BJ, LISTED, E486185, Rated Cable Temperature 79°C, PROG. CNTLR. FOR USE IN HAZ. LOC., SOWS

This device complies with Part 15 of the FCC rules: Operation is subject to be following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Model(型号): A
Display Box PC Optimized HDD AC Win 8.1 1Slot
AC Power module(AC电源模块)
Input(输入): 100-240 VAC, 1.6-0.9A, 50-60 Hz
PV=01 RL=00 SV=1.0
T1 DOM 2013-28-3

HMIPCCU27xxA, HMIPCCP27xxA, HMIPCCU2JxxA and HMIPCCP2JxxA series



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Warning



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Fan module

Model: HMIYBFT4BM11

Input: 12VDC \approx 0.684A

Ambient temperature: $0^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$

CAUTION

This fan module only use with



II 3G Ex ic nA IIC T4 Gc

II 3D Ex tc IIIC T135°C Dc

Cert. No.:

DEMKO 16 ATEX 1676X

IECEx UL 16.0047X

System mode name:

HMIPCCxxxxFxxxxxxxxx

HMIPCCxxxxWxxxxxxxxx series. Where

x may be any alphanumeric character,

please see certified instruction reference

No. 2003233210 for the detail.

**WARNING - Do not
open the lid and use
the USB connector in
hazardous locations.**