





IECEX Certificate of Conformity

Certificate No.: **IECEX UL 24.0022X**

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Date of issue: 2024-11-21

Issue No: 0

Manufacturer: **Comark L L C, DBA Nematron Corp.**
440 Fortune Blvd.
Milford, MA 01757
United States of America

Manufacturing
locations: **Comark L L C, DBA Nematron Corp.**
440 Fortune Blvd.
Milford, MA 01757
United States of America

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
Edition:6.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[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/UL/ExTR24.0033/00](#)

Quality Assessment Report:

[US/UL/QAR23.0014/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

M-Series monitors accept standard analog VGA or DVI inputs and can display VESA video modes. M-Series monitors are housed in heavy duty steel chassis with stainless steel or powder coated aluminum bezels. M-Series monitors are intended to be panel mounted and complete the enclosure they are installed in, which must be suitable for the intended environment.

iPC Series products are M Series Monitors with an nPC300A industrial computer.

iPP Series products are M Series Monitors with an nPC400A industrial computer.

nPC- Series are open type, non-display PC's. HDMI and DVI cables are available to connect nPC-Series with other devices for remote monitoring applications. They are wall, shelf or DIN rail mountable, including to the rear of M-Series monitors.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

M -Series, iPC -Series, and iPP-Series.

Equipment was only assessed for low risk impact.

For Group IIC Environment –

Installation within end-equipment that provides an internal "micro-environment"* of pollution degree 2 or better

For this installation option, the open-type M-Series, iPC-Series, iPP Series and nPC Series shall be installed through end equipment that complies with all of the following conditions:

- The enclosure of the end-equipment shall provide a degree of protection not less than IP 64 in accordance with IEC 60079-0. The IP rating is limited by the end use enclosure; and
- The end-equipment shall provide an internal environment of pollution degree 2 or better, as defined in IEC 60664-1; and
- 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 end-equipment; and
- Enclosure must utilize a tool removable cover, door, or panel.

Installation within areas that provide an external "macro-environment"*** of pollution degree 2 or better

For this installation option, the open-type M-Series, iPC-Series, iPP-Series, and nPC Series shall be installed through end equipment that complies with all of the following conditions:

- The end-equipment shall be used in a pollution degree 2 or better area, as defined in IEC 60664-1; and
- The enclosure of the end-equipment shall provide a degree of protection not less than IP 54 in accordance with IEC 60079-0. The IP rating is limited by the end use enclosure; and
- 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 end-equipment; and
- Enclosure must utilize a tool removable cover, door, or panel.

*The term "micro-environment", per IEC 60664-1, is defined as the "immediate environment of the insulation which particularly influences the dimensioning of the creepage distances".

**The term "macro-environment", per IEC 60664-1, is defined as an "environment of the room or other location in which the equipment is installed or used".

For Group IIIC Environment

- The enclosure of the end-equipment shall provide a degree of protection not less than IP 64 in accordance with IEC 60079-0. The IP rating is limited by the end use enclosure.

The following Special Conditions apply for the purpose of ESD protection:

- For M, iPC, and iPP series models with the touch screen option installed: The touch screen and bezel must be wiped with a damp cloth prior to use.

Annex:

[Annex to IECEx UL 24.0022X Issue 0.pdf](#)



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TYPE DESIGNATION

M-Series Nomenclature:

Models M1200A, M1500A, M1700A, M1900A, M2150A

Model M, followed by 1200A, 1500A, 1700A, 1900A, or 2150A, followed by R or B, followed by -DC, may be followed by -SS, NL or AL, may be followed by additional alphanumeric characters.

M	1500A	T	-DC	-SS	CT
I	II	III	IV	V	VI

I. Model Designation – M

II. LCD Display Size

1200A = 12"

1500A = 15"

1700A = 17"

1900A = 19"

2150A = 21.5"

III. Touchscreen

R = Resistive Touchscreen Option

B = No Touchscreen Option

IV. Power Supply

DC = 18-36 Vdc

V. Front Panel

SS = Stainless Steel Bezel

AL = Brushed Aluminum

NL = Powder Coated Aluminum, No Logo

VI. Cert Type

CT = Any 3 to 6 digit alphanumeric character

iPC Rev A and nPC300A Nomenclature:

Model Series iPC Rev A

Models iPC1200A, iPC1500A, iPC1700A, iPC1900A, iPC2150A

Model iPC followed by 1200A, 1500A, 1700A, 1900A, or 2150A, followed by R, B or blank, followed by 3-10 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by blank or 3-6 additional alphanumeric characters, followed by DC, followed by -SS, NL, or AL, followed by 3-6 additional alphanumeric characters.



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Models nPC300A

Model nPC300A, followed by 3-10 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by blank or 3-6 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by DC, followed by 3-6 additional alphanumeric characters.

iPC	1500A	T	-	iC11	-	4GB	-	40EX	-	XP	-	DC	-	NL	-CT
I	II	III		IV		V		VI		VII		VIII		IX	X

I. Model Designation – iPC, or nPC

II. LCD DISPLAY SIZE / NODE TYPE

1200A = 12"

1500A = 15"

1700A = 17"

1900A = 19"

2150A = 21.5"

300A = No Display Node (based on iPCxxxxA models)

III. Touchscreen option (not used on nPC models)

R – Resistive Touchscreen Option

B = no Touchscreen and no Keypad Option

IV. Processor: Any 3 to 10 digit alphanumeric character

V. DRAM Option: Any 3 to 6 digit alphanumeric character

VI. Storage Drive: Blank or any 3 to 6 digit alphanumeric character

VII. Operating System: Any 3 to 6 digit alphanumeric character or blank

VIII. Power supply:

DC = 18-36VDC

IX. Front panel (not used on nPC models):

–SS = stainless steel bezel option

–AL = Power Coated Aluminum

–NL = Power Coated Aluminum, no Logo

–RM = 19" rack mount bezel option

X. Cert Type: CT= Blank or any 3 to 6 digit alphanumeric character

iPP and nPC400A Nomenclature:

Model Series iPP Rev A

Models iPP1500A, iPP1700A, iPP1900A, iPP2150A

Model iPP followed by 1500A, 1700A, 1900A, or 2150A, followed by R, B or blank, followed by 3-10 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by 2-6 additional alphanumeric characters, followed by 2-6 additional alphanumeric characters, followed by -2S, -2E, -2P, followed by 3-6 additional alphanumeric characters, followed by DC, followed by -SS, NL, AL, or RM, followed by EN, followed by CT.



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Models nPC400A

Model nPC400A, followed by 3-10 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by 2-6 additional alphanumeric characters, followed by -2S, -2E, -2P, followed by 3-6 additional alphanumeric characters, followed by DC

iPP	1500A	T-	IC11-	8GB-	256GB-	512GB-	DVD-	2E-	W1021-	DC-	NL-	EN	CT
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV

I. Model Designation – iPP, or nPC

II. LCD Display Size / NONE TYPE:

1500A = 15"

1700A = 17"

1900A = 19"

2150A = 21.5"

400A = No Display Node (based on iPPxxxxA)

III. T = Touchscreen option (not used on nPC models)

R = Resistive Touchscreen Option

B = no Touchscreen and no keypad options

IV. Processor: Any 3 to 10 digit alphanumeric character

V. DRAM Option: Any 3 to 6 digit alphanumeric character

VI. Storage Drive: NA (none) or any 3 to 6 digit alphanumeric character

VII. Storage Drive: NA (none) or any 3 to 6 digit alphanumeric character

VIII. Optical Drive: NA (none) or any 3 to 6 digit alphanumeric character

IX. iPP and nPC400 Only – Internal expansion slot riser backplane options (not critical):

2S = standard riser with one PCI and one PCIe16 slot

2E = 2 PCIe slot riser

2P = 2 PCI slot riser

X. Operating System (not critical): Any 3 to 6 digit alphanumeric character

XI. Power supply:

DC = 18-36VDC

XII. Front panel (not used on nPC models):

–SS = stainless steel bezel option

–AL = Power Coated Aluminum

–NL = Power Coated Aluminum, No logo

–RM = 19" rack mount option

XIII. Encoding of SSD

EN = NA or any 3 to 6 digit alphanumeric character



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XIV. Cert Type

CT = NA or any 3 to 6 digit alphanumeric character

Industrial PC Node nPC20A Nomenclature:

Models nPC20A, followed by 3-10 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by 3-6 additional alphanumeric characters, followed by DC, followed by followed by 3-6 additional alphanumeric characters.

nPC20A	-	XXX	-	16GB	-	480SS	-	W1064	-	DC	-CT
I		II		III		IV		V		VI	VII

I. Model Designation – nPC20A

II. Processor: Any 3 to 10 digit alphanumeric character

III. DRAM Option: Any 3 to 6 digit alphanumeric character

IV. Storage Drive: Blank or any 3 to 6 digit alphanumeric character

V. Operating System: Any 3 to 6 digit alphanumeric characters

VI. Power Supply: DC = 10-30VDC

VII. Cert Type : Any 3 to 6 digit alphanumeric character

Protection Method

Models	Protection Method Employed
M1200A, M1500A, M1700A, M1900A, M2150A	Ex ic ec IIC T4 Gc
iPC1200A, iPC1500A, iPC1700A, iPC1900A, iPC2150A	Ex tc IIIC T67°C Dc
iPP1500A, iPP1700A, iPP1900A, iPP2150A	
nPC300A, nPC400A, nPC20A	Ex ec IIC T4 Gc



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PARAMETERS RELATING TO THE SAFETY

Model	VDC	
	Input	Amps
M1200A	18-36	2.0 A
M1500A	18-36	2.0 A
M1700A	18-36	2.0 A
M1900A	18-36	2.0 A
M2150A	18-36	2.2 A
iPC1200A	18-36	6.0 A
iPC1500A	18-36	6.0 A
iPC1700A	18-36	6.0 A
iPC1900A	18-36	6.0 A
iPP2150A	18-36	6.0 A
iPP1500A	18-36	6.0 A
iPP1700A	18-36	6.0 A
iPP1900A	18-36	6.0 A
iPP2150A	18-36	7.5 A
nPC300A	18-36	6.0 A
nPC400A	18-36	7.5 A
nPC20A	10-30	2.2 A

MARKING

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

M Series, iPC Series, iPP Series Marking Plate:

P/N: XXXXXXXXXXXXXXXX		II 3G Ex ic ec IIC T4 Gc II 3D Ex tc IIIC T67°C Dc		86JM UL US LISTED E182843 E201644	
		Ex ic ec IIC T4 Gc Ex tc IIIC T67°C Dc		IND. CONT. EQ. for HAZ. LOC. Class I Div. 2, Groups A, B, C, D; Class II, Div. 2, Groups F and G; Class III, T4	
S/N: NXXXXXXXXX		IECEX UL 24.0022X UL 24 ATEX 3195X UL24UKEX2977X		UK CA	
MODEL: XXXXXXXXXX-XXXXXXXXXXXXXXXXXXXXXXXXXXXX		Rev: XX		For Use on a Flat Surface of a Type 4, 4x, or 12 Enclosure	
INPUT: == 18-36 VDC, YYA Max		0°C ≤ T _{AMB} ≤ 55°C		Made in USA	
 by COMARK 440 Fortune Blvd, Milford, MA 01757		www.comarkcorp.com		1-800-NEMATRON	

WARNING
POTENTIAL ELECTROSTATIC CHARGING HAZZARD
SEE INSTRUCTIONS



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nPC Series Marking Plate:

P/N: NPCXA-XXXXXXXXXX  NPC3A-XXXXXXXXXX		II3G Ex ec IIC T4 Gc Ex ec IIC T4 Gc CE UK CA		UL 86JM US E182843 LISTED E201644	
S/N: NXXXXXXXXX  NXXXXXXXXX		IECEX UL 24.0022X UL 24 ATEX 3195X UL24UKEX2977X		IND. CONT. EQ. for HAZ. LOC. Class I Div. 2, Groups A, B, C, D; Class II, Div. 2, Groups F and G; Class III; T4	
MODEL: NPCXXXA-XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
INPUT:  18-36 VDC, YYYA Max		Rev: XX		For Use on a Flat Surface of a Type 4, 4x, or 12 Enclosure	
Nematron by COMARK		0°C ≤ T_{AMB} ≤ 55°C		Made in USA	
440 Fortune Blvd, Milford, MA 01757		www.comarkcorp.com		1-800-NEMATRON	