



Test report issued under the responsibility of:
 EMITECH MONTPELLIER laboratory
 MRA US-EU Designation Number: FR0006
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EMC TEST REPORT

FCC part 15
 ANSI C 63.4: 2014
 ICES-001 Issue 5 July 2020

Company : UNICACCES GROUPE
 Address..... : 24 chemin des Vieilles Vignes
 84240 LA TOUR D'AIGUES
 FRANCE

Test item description : Badge management
 Trade Mark. : ASGARD ANNA
 Manufacturer..... : Unicacces Groupe
 FCC ID : 2BO23UGPCTR
 Model/Type reference..... : Centrale IP 4 ports +PoE module / UGP-CTR
 Ratings..... : 48Vdc

Testing Laboratory : EMITECH MONTPELLIER laboratory
 Address..... : 145 rue de Massacan
 34740 VENDARGUES
 FRANCE

Report Reference No. : RC-EVE-23C710-4A
 Test procedure. : Certification
 Diffusion..... : MR FAUVEL
 Applicant's name. : UNICACCES GROUPE
 Date of issue..... : May 12, 2025
 Total number of pages..... : 17
 Revision..... : 1
 Compiled by..... : Fabien MOINACHE
 Approved by (+ signature). : David MONTAULON (Technical Manager)

Duplication of this test report is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above. This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.

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REVISION HISTORY:

Revision	Date	Modified pages	Modifications
0	May 12, 2025	/	Creation

1. GENERAL INFORMATIONS

This document submits the results of Electromagnetic Compatibility tests performed on the equipment **Badge management Centrale IP 4 ports +PoE module UGP-CTR** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

TESTING PROCEDURE AND TESTING LOCATION:										
Testing Location	EMITECH MONTPELLIER laboratory									
Address.....	145 rue de Massacan 34740 VENDARGUES FRANCE									
Test procedure.....	Certification									
Tested by.....	Fabien MOINACHE									
Test supervisor.....	None									
Date of receipt of test item	N/A									
Date (s) of performance of tests.....	June Between the 5 th to the 13 th of 2024									
APPLICANT'S GENERAL INFORMATIONS:										
Company name	UNICACCES GROUPE									
Company address.....	24 chemin des Vieilles Vignes 84240 LA TOUR D'AIGUES FRANCE									
Person(s) present during the tests.....	Mr MERLE									
Responsible.....	MR FAUVEL									
GENERAL REMARKS:										
The information in italics is declared by the manufacturer and is under his responsibility The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.										
"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report the decimal separator is point.										
POSSIBLE TEST CASE VERDICTS:										
Test case does not apply to the test object.:	N/A									
Test case not performed.....	N/P									
Test object does meet the requirement.....	P (Pass)									
Test object does not meet the requirement.	F (Fail)									
DEFINITIONS AND ABBREVIATIONS:										
E.U.T.	Equipment Under Test	AE	Ancillary Equipment	Pk	Peak detector					
RBW	Resolution BandWidth	VBW	Video BandWidth	QP	Quasi-peak detector					
FSOATS	Free Space Open Area Test Site	FAR	Full Anechoic Room	Av	Average detector					
VP	Vertical Polarization	HP	Horizontal Polarization	RMS	Root Mean Square					
RF	Radio Frequency	N.T.R	Nothing To Report	N/C	Not Communicated					
SAC	Semi Anechoic Chamber									

2. REFERENCE DOCUMENT(S)

NORMATIVE REFERENCES:

The following referenced documents are necessary for the application of the present test report.

FCC 47 Part 15

Code of Federal Regulations
Title 47 – Telecommunications
Chapter 1 – Federal Communications Commission
Part 15 – Radio frequency devices
Subpart B – Unintentional Radiators

ANSI C 63.4: 2014

American National Standard for Methods of measurement of Radio-Noise from low-voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

ICES-001 Issue 5 July 2020

Industrial, Scientific and Medical (ISM) Equipment

Although the product standard uses obsolete technical standards, the latest versions of standards achievable by the laboratory will be used for testing.

INFORMATIVE REFERENCES:

The following referenced documents are not necessary for the application of the present test report but they assist the user with regard to a particular subject area.

3. EQUIPMENT TECHNICAL DESCRIPTION

3.1. Test Conditions

Test item description	Badge management
Model/Type reference.....	Centrale IP 4 ports +PoE module / UGP-CTR
Trade Mark	ASGARD ANNA
Serial number (S/N).....	0523316401
Part number (P/N).....	Not communicated
Software version.....	<i>Not communicated</i>
Firmware version.....	00.00.76 (centrale)
Type of sample.....	Standard equipment
Function(s).....	Badge management and associated rights, interface with 4 badge readers (OSDP or Wiegand), door keeper (relay), general inputs and communication with supervisor (events...) via Ethernet link
Manufacturer name.....	Unicacces Groupe SAS
Address.....	24 Chemin des Vieilles Vignes - ZA LE REVOL 84240 La Tour-d'Aigues FRANCE

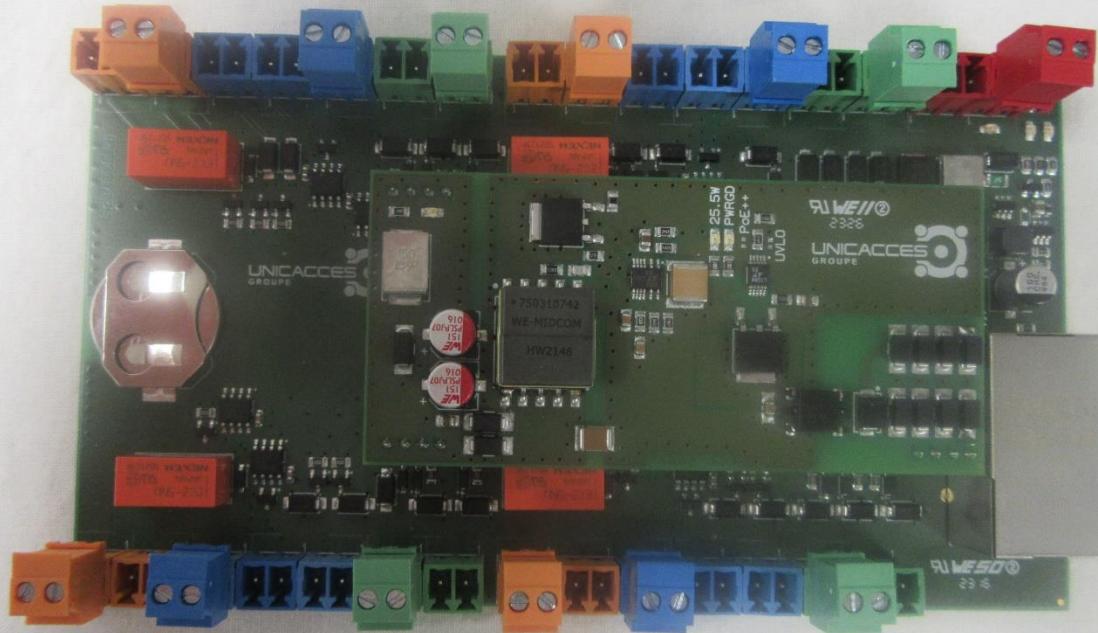
General product information:

N/A

3.2. E.U.T. General view



3.3. E.U.T. Electronic board



3.4. E.U.T. Mechanical and Electrical Design

Power supply.....	48Vdc
Power supply range.....	48Vdc (POE)
Power type.....	POE
Power (W).....	<i>Not communicated</i>
Nominal current (A).....	0.15
Dimensions (L x W x H) (m).....	0.16 x 0.95 x 0.60
Weight (kg).....	<i>Not communicated</i>
Temperature range (°C).....	0°C ; +50°C
Ground bounding strap.....	No

Comments:

N/A

3.5. E.U.T. Input/Output ports

**Centrale IP 4 ports
+PoE module /
UGP-CTR**



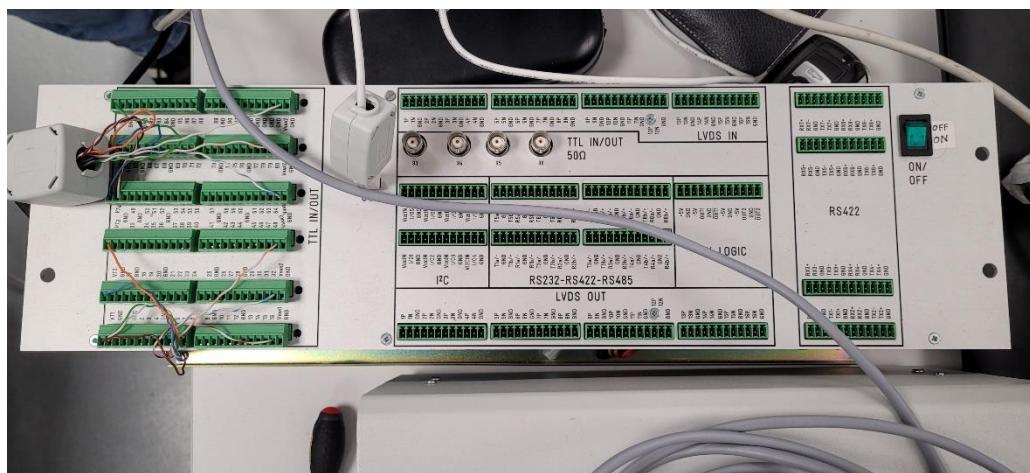
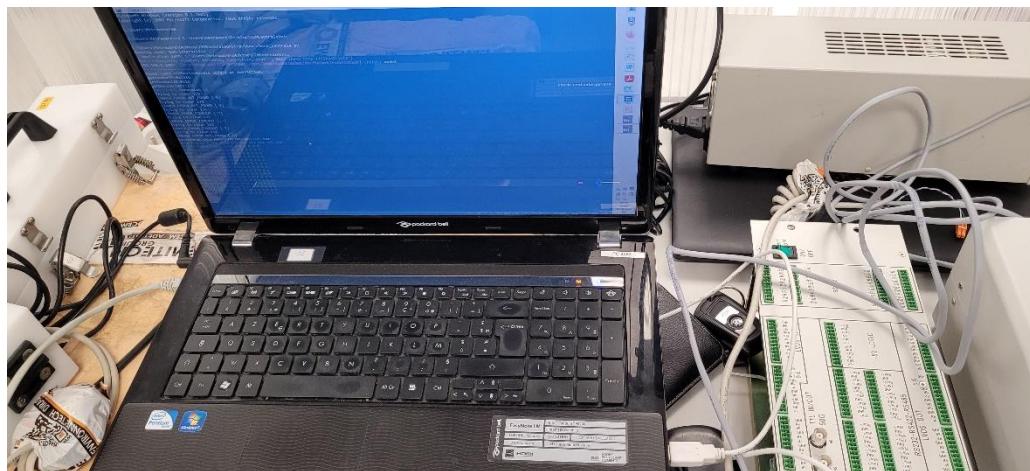
PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Plastic	N/A
1	Ethernet	I/O	>3m	Shielded	48Vdc
2	Reader	I/O	>3m	Not shielded	N/A
3	Reader	I/O	>3m	Not shielded	N/A
4	Reader	I/O	>3m	Not shielded	N/A
5	Reader	I/O	>3m	Not shielded	N/A

AC/DC : AC/DC Converter port AC : Alternative current port DC : Direct current port
 I/O : Input or Output port TP : Telecommunication port RF : Radio frequency port
 N/E : Non Electrical port

3.6. Supporting Equipment Used During Test

Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N° EMITECH / COMMENTS
Interface RS485 /USB	UNICACCES	N/A	N/A
Laptop	Packard Bell	MS2290	N/A
Reader	UNICACCES	N/A	N/A

INTERFACE RS485 TO USB EA**LAPTOP (EA)**

READER (EA)



3.7. EMC Environment and Performance Criteria

According to manufacturer's declarations:

Electromagnetic environment : *Light Industry*
 Professional use ? : Yes
 Typical mounting : *Wall mounted equipment*
 Internal frequencies : 100MHz
 Configuration(s) : N/A

Comments:

N/A

a) EUT OPERATION MODES:	
MODE #	DESCRIPTION
1	2 2 OSDP readers on ports 1 and 2. Valid badge on reader 2, 2 other Wiegand readers on ports 3 + 4. Cycle: valid badge reading, open door, close door

Opinion(s) and interpretation(s)

TEST(S) PERFORMED	DEVIATION(S) TO TEST METHOD(S)
CISPR 11: 2015 / AMD1: 2016 / AMD2: 2019	N/A
ANSI C63.4: 2014	N/A

Comments: N/A

4. EUT REQUIREMENTS FOR FCC RULES

4.1. Subpart A - General

This part sets out the regulations under which an intentional, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of part 15 devices.

The user notice, shall include the following informations:

a) LABELING REQUIREMENTS (§15.19):

Equipment authorization: Supplier's Declaration of Conformity (SDoC) or Certification

List of different **type of devices** and associated "statement on product":

§15.19(a)(1) - Receivers associated with the operation of a licensed radio service:

"This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference."

§15.19(a)(2) - A stand-alone cable input selector switch:

"This device complies with part 15 of the FCC Rules for use with cable television service."

§15.19(a)(3) - All other devices:

"This device complies with part 15 of the FCC Rules. Operation is subject to the 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.

§15.19(a)(4) - Where a device is constructed in two or more sections connected by wires and marketed together:

The statement specified only to the main control unit:

"This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference."

§15.19(a)(5) - When the device is so small:

The statement of §15.19(a) shall be placed in the user manual and must also either be placed on the device packaging or on a removable label attached to the device.

Compliance information (§2.1077):

The identification, by name, address and telephone number or internet contact information, of the responsible party, as defined in § 2.909 of the standard. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

Identification (§2.1074):

(a) Devices subject only to Supplier's Declaration of Conformity shall be uniquely identified by the party responsible for marketing or importing the equipment within the United States.

(b) Devices subject to authorization under Supplier's Declaration of Conformity may be labeled with the following logo on a voluntary basis as a visual indication that the product complies with the applicable FCC requirements.



(image size: 6.7 x 2.8" ;3.5 x 1.4" ;1.6 x .7")

The label shall be located in a conspicuous location on the device.

The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible (font of at least 4-point or larger) to the purchaser at the time of purchase.

b) DEVICES INCLUDING MODULAR TRANSMITTER(S) (§15.212):

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

“Contains Transmitter Module FCC ID: XYZMODEL1” or “Contains FCC ID: XYZMODEL1.”

Device under test includes single modular transmitter(s):

FCC ID: N/A

IC: N/A

c) INFORMATION TO USER (§15.21):

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that:

“The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user’s authority to operate the equipment”

4.2. Subpart B - Unintentional Radiators

In addition to Subpart A, the user notice, shall include the following informations:

d) INFORMATION TO USER (§15.105):

Equipment authorization: Supplier's Declaration of Conformity (SDoC) or Certification

§15.105(a) - For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

“NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.”

§15.105(b) - For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

“NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.”

5. RESULT SUMMARY

TEST DESIGNATION	SEVERITY	VERDICT	BASIC STANDARDS / COMMENTS
Conducted emission (measurement)		N/A	DC Powered (external PoE)
Measurement of radiated disturbances - IP central unit + PoE module	15.109	PASS	ANSI C63.4: 2014

Sample subject to the test complies for tests done with the requirements of the reference document(s) listed in §2 of this test report and, where applicable, with deviation(s) specified in this document.

To declare, or not, the compliance with the specifications, it was not explicitly taken into account of uncertainty associated with the results with the exception of emission tests based on CISPR standards.

TEST(S) PERFORMED	MODIFICATION(S)
CISPR 11: 2015 / AMD1: 2016 / AMD2: 2019	N/A
ANSI C63.4: 2014	N/A

6. MEASUREMENT UNCERTAINTY

Uncertainties values presented below are required by standards:

PARAMETER	MAXIMAL EMITECH UNCERTAINTY	STANDARD UNCERTAINTY
Conducted emission		
(Artificial Mains Network) 3kHz – 9kHz	± 3.8 dB	/
(Artificial Mains Network) 9kHz – 150kHz	± 3.6 dB	± 3.8 dB
(Artificial Mains Network) 150kHz – 30MHz	± 3.4 dB	± 3.4 dB
Radiated magnetic field emission		
9kHz – 30MHz	± 2.7 dB	/
Radiated electric field emission		
(FSOATS/SAC) HP-VP 30MHz – 200MHz	± 4.8 - 5.0 dB	± 5.1 - 5.2 dB
(FSOATS/SAC) HP-VP 200MHz – 1GHz	± 5.0 - 5.0 dB	± 5.3 - 6.3 dB
(FSOATS/SAC) HP-VP with bilog. 30MHz – 1GHz	± 5.1 - 5.2 dB	± 5.3 - 6.3 dB
(FAR) HP-VP 30MHz – 200MHz	± 4.7 - 4.9 dB	± 5.0 dB
(FAR) HP-VP 200MHz – 1GHz	± 5.0 - 5.0 dB	± 5.3 dB
(FAR) HP-VP with bilog 30MHz – 1GHz	± 5.1 - 5.2 dB	± 5.3 - 6.3 dB
(FSOATS/FAR) 1GHz - 6GHz	± 5.0 / 5.2 dB	± 5.2 dB
(FSOATS/FAR) 6GHz - 18GHz	± 5.3 / 5.4 dB	± 5.5 dB
18GHz - 40GHz	± 6.1 dB	/
40GHz - 140GHz	± 5.7 dB	/

For the calculation of expanded uncertainty, the confidence interval is 95 % (k=2).

7. TEST CONDITIONS AND RESULTS

7.1. Measurement of radiated disturbances

Reference standard:	FCC 47 CFR PART 15.109 ICES-001 Issue 5 July 2020
Test method:	ANSI C63.4: 2014 CISPR 11: 2015 / AMD1: 2016 / AMD2: 2019
General test setup: EUT is set on an insulating support at 80cm above the ground reference plane. First (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located in horizontal and vertical polarities and, for SAC method, at various heights. Final measurements (quasi-peak) were then performed in a reference test site that complies to CISPR 16-1-4. The EUT was rotated 360° about its azimuth and, for SAC method, adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarization, where applicable.	

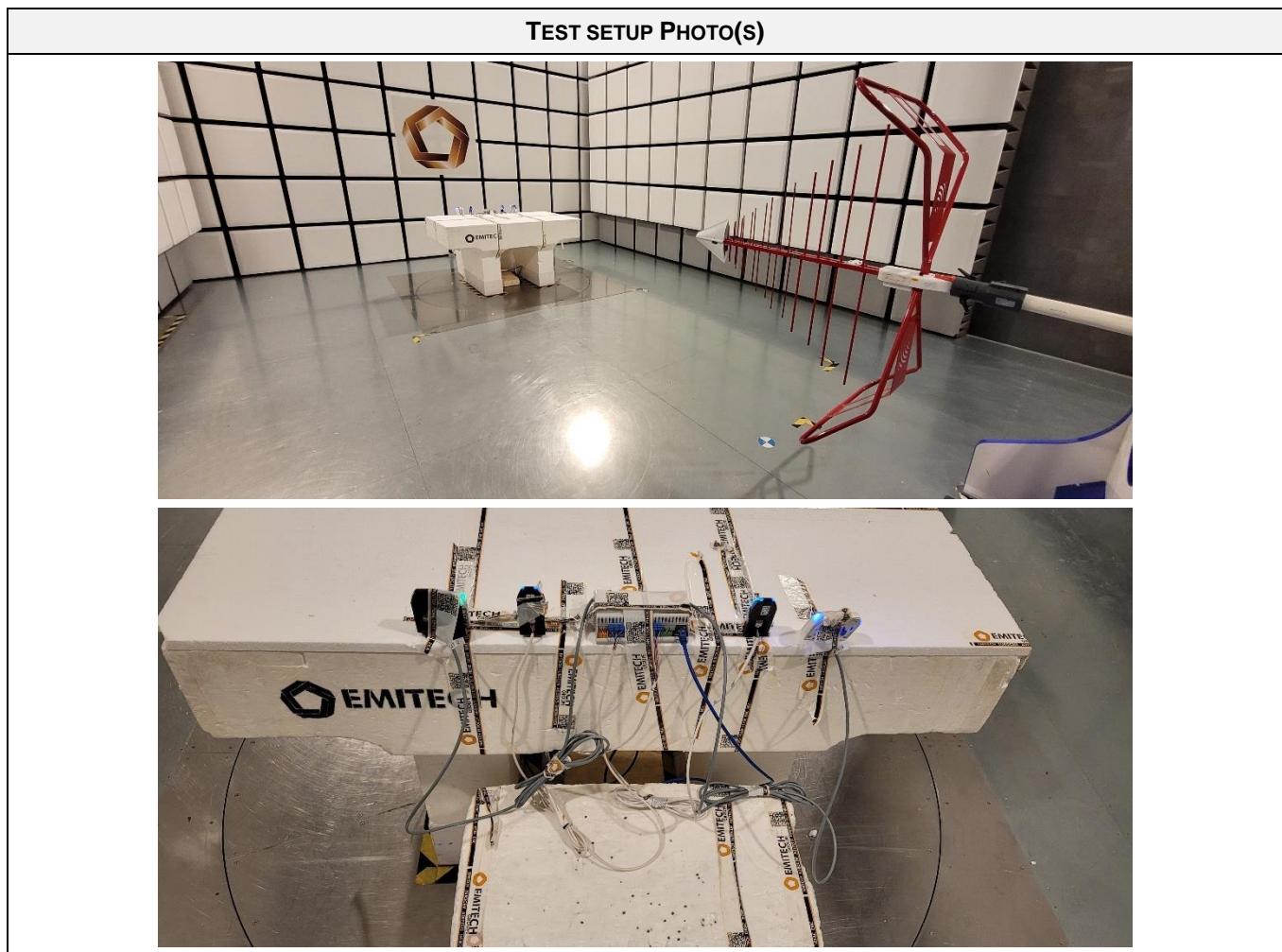
TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
IP central unit + PoE module	30MHz-1GHz	15.109	EMI4680	PASS

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	10 to 40 °C	See Graph(s)
Relative Humidity	10 to 90 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
Test method deviation: N/A		
Supplementary information: N/A		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	ETS lindgren	3142E	14523	27/01/2022	27/03/2025
Cable	SUCOFLEX	N-3m	14378	17/08/2023	17/10/2025
Cable	SUCOFLEX	N-6,5m	14380	17/08/2023	17/10/2025
Cable	Techniwave	N-8m	18349	17/08/2023	17/10/2025
Receiver	Rohde & Schwarz	ESW26	17791	08/07/2023	08/09/2024
Shielded enclosure	COMTEST	SAC 3m	14494	09/08/2023	09/10/2026
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H2	12269	07/06/2022	07/08/2024
Thermohygrometer	Bioblock Scientific	Météostar	0963	25/09/2023	25/11/2025

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity



MEASUREMENT OF RADIATED DISTURBANCES - TABULATED RESULTS								EMI4680
IP CENTRAL UNIT + PoE MODULE								
Test Freq. (MHz)	Detector (Pk/QP/Av)	Ant. position	Azim uth (°)	Ant. Height (cm)	Cor. Factor (dB)	Level dB (µV/m)	Limit dB (µV/m)	Margin (dB)
34.27	QP	Vertical	70	100	22.61	24.54	40	-15.46
36.40	QP	Vertical	70	100	21.42	17.64	40	-22.36
38.83	QP	Vertical	70	100	20.15	18.35	40	-21.65
51.73	QP	Vertical	70	100	15.70	27.24	40	-12.76
67.25	QP	Vertical	70	100	14.37	25.07	40	-14.93
72.30	QP	Vertical	70	100	14.38	26.30	40	-13.70
125.46	QP	Vertical	70	100	14.97	22.68	43.5	-20.82
127.59	QP	Vertical	70	100	15.12	25.30	43.5	-18.20
194.72	QP	Vertical	70	100	17.09	31.87	43.5	-11.63
205.39	QP	Vertical	270	100	18.31	23.88	43.5	-19.62
250.02	QP	Vertical	270	100	20.32	33.38	46	-12.62
263.79	QP	Vertical	270	100	23.40	28.82	46	-17.18
298.43	QP	Vertical	270	100	21.44	30.91	46	-15.09
300.66	QP	Vertical	270	100	21.68	31.71	46	-14.29
302.60	QP	Vertical	270	100	21.67	30.12	46	-15.88
304.93	QP	Vertical	270	100	21.58	30.93	46	-15.07
307.06	QP	Vertical	270	100	21.55	29.10	46	-16.90

MEASUREMENT OF RADIATED DISTURBANCES - TABULATED RESULTS								
IP CENTRAL UNIT + PoE MODULE							EMI4680	
350.04	QP	Vertical	270	100	24.13	40.84	46	-5.16
179.49	QP	Horizontal	90	100	17.74	21.58	43.5	-21.92
250.02	QP	Horizontal	90	100	20.32	24.53	46	-21.47
255.16	QP	Horizontal	90	100	21.18	28.92	46	-17.08
257.29	QP	Horizontal	90	100	21.66	26.73	46	-19.27
291.73	QP	Horizontal	90	100	20.91	37.60	46	-8.40
294.25	QP	Horizontal	90	100	21.03	33.42	46	-12.58
296.39	QP	Horizontal	90	100	21.19	33.60	46	-12.40
315.79	QP	Horizontal	90	100	21.71	33.72	46	-12.28
317.73	QP	Horizontal	90	100	21.77	30.28	46	-15.72
343.92	QP	Horizontal	90	100	23.59	23.82	46	-22.18
348.19	QP	Horizontal	90	100	24.04	23.24	46	-22.76
350.04	QP	Horizontal	90	100	24.13	25.53	46	-20.47
356.83	QP	Horizontal	90	100	24.27	27.68	46	-18.32
Supplementary information: N/A								

MEASUREMENT OF RADIATED DISTURBANCES - GRAPH							
IP CENTRAL UNIT + PoE MODULE				EMI4680			
EUT mode:	#1			T (°C):	22.4		
Test Date:	10/07/2024			H (%):	62.3		
Test Operator:	FMO			P (hPa):	1001		
<p>Sub-range 1 Frequencies: 30 MHz - 1 GHz (Analyser mode) 10000 Points Settings: RBW: 100kHz, VBW: 300kHz, Auto, Attenuation: 0 dB, Sweep count 2, Preamp: Off, LN Preamp: On, Preselector: Off Polarization:Vertical Distance: 3 m</p>							
<p>Centrale IP + module PoE / Reader outside - 4680</p> <p>1GHz Polarization: Vertical</p>							
<p>Sub-range 2 Frequencies: 30 MHz - 1 GHz (Analyser mode) 10000 Points Settings: RBW: 100kHz, VBW: 300kHz, Auto, Attenuation: 0 dB, Sweep count 2, Preamp: Off, LN Preamp: On, Preselector: Off Polarization:Horizontal Distance: 3 m</p>							
<p>Centrale IP + module PoE / Reader outside - 4680</p> <p>1GHz Polarization: Horizontal</p>							
POSITION	FREQUENCIES	RBW	VBW	DETECTOR			
Vertical	30MHz-1GHz	100kHz	300kHz	Peak			
Horizontal	30MHz-1GHz	100kHz	300kHz	Peak			
Vertical	30MHz-400MHz	120kHz	-	QPeak			
Horizontal	100MHz-400MHz	120kHz	-	QPeak			
Configuration:	N/A						
Comments:	N/A						
EUT modification(s): N/A							

●●● End of test report ●●●