

Subject: FCC-TCB Certification Application - Declaration of Conformity (DoC).

FEDERAL COMMUNICATIONS COMMISSION

DECLARATION OF CONFORMITY

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1. Applicant and Manufacturer initial statements, product identification and manuals

1.1. Company identification and contact data.

Manufacturer Company name:	EBS Ink-Jet Systems Poland Sp. z o. o.
Address:	ul. Tarnogajska 13 PL 50-512 Wrocław Poland
Company phone number:	+ 48 71 367 04 11
Applicant:	as above
Date:	November 24, 2025
Name:	Krzysztof Soliński
Function:	QMS and Regulatory Compliance Manager
Phone number:	+48 71 7384 134
Email address:	k.solinski@ebs.ink
Signature:	Digital signature Digitale Unterschrift Podpis cyfrowy  Krzysztof Soliński 2025.11.24 20:29:02 ...+01'00'

1.2. Responsible party in USA.

The following manufacturer/importer/entity (located in the USA) is responsible for this declaration:

Company name:	MARKEM-IMAJE CORPORATION
Address:	150 Congress Street 03431 / Keene / New Hampshire USA
Name (legal representative):	Charles Gibson
Phone number:	01 603 400 2968
Email address:	cgibson2@markem-imaje.com
Date:	November 20, 2025
see Agent Letter:	U.S. Agent Designation for Service of Process (Applicant and U.S. Agent are Separate Parties) acc. section 47 CFR 2.911(d)(7), signed on November 20, 2025. Doc. Ref. No.: G2025/07/559_1

1.3. Equipment designation.

Model designation:	4500
Trademark:	Markem-Imaje
Equipment variants - Items in the Markem Imaje product identification system:	A49109 A49110 A49111 A49112
Manufacturer:	EBS Ink-Jet Systems Poland Sp. z o.o.
FCC ID in case other parts of this equipment are subject to certification:	2AKBZ-EMI45AC

1.4. Equipment description and labelling.

1. Product characteristics

The industrial ink-jet printer model 4500 is used to print on cardboard boxes moving on a belt conveyor.

2. Product hardware variants description

4500 model printer is available in four hardware versions which differ in the number of ink nozzles and in distances between the nozzles:

- A49109**: 7-nozzle printhead, distance 1.8mm, printout height: 13mm (0.51in.),
- A49110**: 7-nozzle printhead, distance 3.6mm, printout height: 24mm (0.94in.),
- A49111**: 16-nozzle printhead, distance 1.8mm, printout height: 29mm (1.14in.),
- A49112**: 16-nozzle printhead, distance 3.6mm, printout height: 56mm (2.20in.).

See also point 4 in Section 1.4 below. Each product variant also includes a *Revision number*, currently identified as: **AC**.

3. Product labelling acc. 47 CFR, § 15.19 Labeling requirements, section 15.19(a)(3) and § 2.925 Identification of equipment.

This device subject to FCC certification bears the following statement placed in a conspicuous location, that is on the manufacturer nameplate label:

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.

and according § 2.925 is labelled as follows:

FCC ID: 2AKBZ-EMI45AC

4. Order product identification and marking.

To ensure effective traceability, this device is identified and marked on the nameplate with the following additional elements:

- a). Model name: **4500**.
- b). Item (printer variant type): **A49109** or **A49110** or **A49111** or **A49112**.
- c). Revision (Rev.) – hardware version.
- d). Serial number (S/N) unique to each device.

The 4500 printer's nameplate (labels) is shown and its contents are described in detail in the document titled: *Labeling, label content & location*, Doc. Ref. No.: **G2025/07/551_1**.

1.5. Manuals and instructions.

The user manuals and instructions provided with this device contain all statements required for equipment authorization. The following manuals and instructions are provided with 4500 printer:

Table item	Type of document	Item	Revision	Date of issue	Language
1.	Safety and important information	A50686	AG	11/2021	EN, FR
2.	User Manual	A51723	AC	09/2018	EN, FR
3.	Instruction manual	A51526	A	10/2015	EN, FR
4.	Installation guide	A51739	AB	06/2016	EN

2. Documents confirming compliance and other FCC-TCB exhibits

2.1. Testing laboratory

All tests were performed and test reports were prepared by the following accredited laboratory:

Laboratory name:	TÜV NORD Hochfrequenztechnik GmbH & Co. KG
Address:	LESKANPARK, Building 10, Waltherstr. 49-51, 51069 Cologne, Germany
Phone number:	49 221 8888950
Email address:	hf@tuev-nord.de

2.2. Test reports

The following test reports were submitted for conformity assessment by the testing laboratory mentioned in Section 2.1:

Test report No.	Revision	Title / Subject	Date of issue
25013318	02	FCC Title 47 CFR Part 15, Subpart C – Intentional Radiators	2025-11-21

Test report No.	Revision	Title / Subject	Date of issue
25013318	01	Annex No.1 - External photographs of the Equipment Under Test (EUT)	2025-09-17
25013318	01	Annex No.2 - Internal photographs of the EUT	2025-09-17
25013318	01	Annex No.3 - Test results Channel occupancy / bandwidth	2025-09-17
25013318	01	Annex No.6 - Test setup photographs	2025-09-17
25013318	01	Annex No.12 - Test result frequency stability	2025-09-17
25013320	01	FCC Title 47 CFR Part 15, Subpart B – Unintentional Radiators	2025-09-17

2.3. Standards and Test Procedures Applied

The following relevant standards and test procedures were applied for conformity assessment and testing by the testing laboratory mentioned in Section 2.1:

Test report No.	Revision	Title / CFR section / Standard
25013318	Title:	47 - Telecommunication
	Part:	15 - Radio Frequency Devices
	Subpart:	Subpart C – Intentional Radiators - Section 15.225
	Measurement Procedure:	ANSI C63.4-2014 & ANSI C63.10-2013
25013320	Title:	47 - Telecommunication
	Part:	15 - Radio Frequency Devices
	Subpart:	Subpart B – Unintentional Radiators
	Measurement Procedure:	ANSI C63.4-2014

2.4. List of FCC-TCB exhibits submitted

The following exhibits were submitted for conformity assessment by FCC-TCB:

Item	Doc. Ref. No.	Version	Title / Subject of exhibit
1.	G2025/07/545	1	Operational Description
2.	G2025/07/546	1	Block Diagram
3.	G2025/07/547	1	Schematics. BB2400MI (RF reader) & ANT2400MI (antenna)
4.	G2025/07/548	1	BoM. BB2400MI (RF reader) & ANT2400MI (antenna)
5.	G2025/07/549	1	External Photos
6.	G2025/07/550	1	Internal Photos
7.	G2025/07/551	1	Labeling, label content & location
8.	G2025/07/552	1	Authorisation Letter
9.	G2025/07/553	1	Short-Term (ST) Confidentiality Letter
10.	G2025/07/554	1	Permanent-Term (LT) Confidentiality Letter
11.	G2025/07/555	1	Notification of Name Change
12.	G2025/07/556	1	Test setup photos (as a copy of the Annex No.6 to the Test report No. 25013318_Rev.01 - Test setup photographs)
13.	G2025/07/557	1	Covered List Attestation
14.	G2025/07/558	1	FCC Declaration Of Conformity (DoC) – this exhibit
15.	G2025/07/559	1	U.S. Agent Letter
16.	see Section 1.5	-	Manuals and instructions for 4500 printer – see Section 1.5. All PDF files have been split into parts smaller than 6 MB.