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Your sign	Your mail from	Name / Dept.	Phone	Date
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Ust-IdNr. DE161887712

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Subject: Application for FCC Certification of a Proximity Reader

Dear Gentlemen:

We apply for FCC Certification the proximity reader model ARE i2- 1X / RS232, ARE i2-4X / RS232, ARE i2- 1X / PFB and ARE i2- 4X / PFB.
Model description:
ARE i2 is a proximity reader family market by AEG Identifikationssysteme GmbH. This reader is provided for different interfaces RS232 or Profibus and for 4 types of external antennas. The external antennas were different shaped and use either air coils or ferrite coils. All antennas use a special connector to the reader module ARE i2 of the same type.

We at EMCE GmbH are acting as an agent on behalf of
AEG Identifikationssysteme GmbH
Hoervelsinger Weg 47
89081 Ulm
Germany
FCC Grantee Code V7I

Attached to this application you will find all exhibits listed in the table. The marked exhibits pertaining confidential material. AEG Identifikationssysteme GmbH requests that these documents regarding this submission for FCC ID V7IAREI2 be kept confidential pursuant to 47 CFR § 0.459 (d) (2) (I).

AIE17_01.DOC

Scope of Exhibits

1   ID Label / Location information   ☒

      File   ID Label

2   Attestation Statements   ☐

3   External Photos   ☒

      File   External Photos Reader
      File   External Photos Antennas
      File   Antenna AAN X1
      File   Antenna AAN X5

4   Block Diagrams   ☒

      File   Block Diagram

5   Schematics   ☒

File	Schematics μC-Board Profibus	Not for public access
File	Schematics ASK-Decoder PFB	Not for public access
File	Schematics PSK-Decoder PFB	Not for public access
File	Schematics Backplane	Not for public access
File	Schematics Power Board	Not for public access

6 Test report ☒

Basic Unit

ARE i2-X Reader		1X / RS232	1X / PFB	4X / RS232	4X / PFB
Algorithm		PSK	PSK	ASK	ASK
Antenna type					
Air coil	AAN X1L	AIE15_01	x	x	AIE15_07
Ferrite coil	AAN X1F	x	AIE15_05	AIE15_03	x
Air coil	AAN X2L	x	AIE15_06	AIE15_04	x
Ferrite coil	AAN X5F	AIE15_02	x	x	AIE15_08

Tested / reported configuration

ASK	Amplitude shift keying
PSK	Pulse shift keying
PFB	Profibus
RS232	Serial data bus

7 Test Setup Photos ☒

See test reports

8 Users Manual ☒

File   ARE I2 PFB instruction manual

9 Internal Photos ☒

File	Internal Photos Reader	
File	AANX2	Not for public access
File	AANX2 Specification	Not for public access
File	Air Coil Specification	Not for public access
File	Ferrite Coil Specification	Not for public access

10 Part List / Tune-up Info / Generated frequencies   ☒

        File   Generated frequencies
        File   Bill of material μC-Board Profibus   Not for public access
        File   Bill of material ASK-Decoder PFB   Not for public access
        File   Bill of material PSK-Decoder PFB   Not for public access
        File   Bill of material Backplane   Not for public access
        File   Bill of material Power Board   Not for public access

11 RF Exposure Info   ☐

12 Operational Description   ☒

        File   ARE I2 PFB instruction manual

Sincerely,

Christian Vogelmann
Principal engineer
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Germany