

# RF Exposure Statement

Product / EUT: *RFID Reader*  
Type designation: *ARE H3.0 Iso FDX B/A*  
Tested type: *ARE H3.0 Iso FDX B/A*

Production level: *ID Number 1007338*  
Firmware: *v1.1.6.0*  
S/N: *000169*

FCC ID: *V7IAREH30LF*

Manufacturer: *AEG Identifikationssysteme GmbH*  
*Hörvelsinger Weg 47*  
*89081 Ulm / Germany*

Test remit **FCC §1.1307 (b) & §2.1091 – RF EXPOSURE**  
KDB 447498 D04 Interim General RF Exposure Guidance v01  
1-mW Test Exemption

Applicant: *AEG Identifikationssysteme GmbH*  
*Hörvelsinger Weg 47*  
*89081 Ulm / Germany*

EUT-  
Date of arrival: 08/16/2024  
Test ID: 24-0165PR33-002  
Date(s) of test: 08/28/2024

Test laboratory: EMCE GmbH  
Ingenieurbüro für EMV-Prüfungen und Schaltungsentwicklung  
Untere Wiesen 1 / 88483 Burgrieden / Germany

Project manager: Mr. S. Vogelmann

Inspector: Mr. S. Vogelmann

Approval: Mr. Chr. Vogelmann

Remark: The test results effects only to the related items tested at the time of the test. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

# RF exposure assessment

## FCC §1.1307 (b) & §2.1091 – RF EXPOSURE

KDB 447498 D04 v01	<b>Applicable Standard</b>																					
<b>2.1 General RF Exposure for Single Source</b>	According to FCC §2.1091 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.																					
<input type="checkbox"/> 2.1.1	<b>1-mW Test Exemption</b>																					
<input checked="" type="checkbox"/> 2.1.2	Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.																					
<input type="checkbox"/> 2.1.3	<b>Test Result:</b> For worst case:																					
<b>Test result</b>	<table border="1"> <thead> <tr> <th rowspan="2">Mode</th><th>Frequency</th><th colspan="2">Maximum ERP</th><th>Limit</th><th rowspan="2">1-mW Test Exemption</th></tr> <tr> <th>MHz</th><th>dBm</th><th>mW</th><th>mW</th></tr> </thead> <tbody> <tr> <td>LF - RFID</td><td>0.134215</td><td>-17.15</td><td>0.0193</td><td>1</td><td>Fulfilled</td></tr> </tbody> </table>						Mode	Frequency	Maximum ERP		Limit	1-mW Test Exemption	MHz	dBm	mW	mW	LF - RFID	0.134215	-17.15	0.0193	1	Fulfilled
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	MHz	dBm	mW	mW																		
LF - RFID	0.134215	-17.15	0.0193	1	Fulfilled																	
<input checked="" type="checkbox"/> compliant	Note 1: Use of the maximum E-field strength (Peak) 79.7 (dBμV/m) @3(m) for the RF exposure evaluation.																					
<input type="checkbox"/> not compliant	Note 2: EIRP (dBm) = E (dBμV/m) - 94.7 (dB) for distance 3 (m) Note 3: EIRP (dBm) = ERP (dBm) + 2.15 (dBi)																					
	Note 4: ERP=79.7 (dBμV/m) - 94.7 (dB) – 2.15 (dBi) = -17.15 dBm																					