

1 **EU TYPE EXAMINATION CERTIFICATE**  
2 **Radio Equipment Directive 2014/53/EU – Annex III**

3 EU Type Examination      ENW22RED0027  
Certificate No.:

4 Equipment:                      Altair io Dock, ALTAIR io 4 DOCK

5 Manufacturer:                MSA Innovation, LLC

6 Address:                        1000 Cranberry Woods, Cranberry Township, PA 16066, USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Element Materials Technology Portland-Evergreen, Inc. (hereafter referred to as Element Materials Technology) Notified Body number 0981 in accordance with Article 26 of the Council Directive 2014/53/EU of 16 April 2014, certifies that this equipment has been found to comply with the Essential Requirements relating to the design and construction of radio equipment given in the following Articles of the Directive:

**3.2 – Radio spectrum,**

**The manufacturer is responsible for additional assessment to all other applicable articles.**

The examination and test results are recorded in the confidential reports: Element reports: MSAS0023, MSAS0023.6 Rev 2, MSAS0023.3; Northwest EMC Reports: ETHE0008.8, ETHE0018.2; CTS Advanced reports: 1-0884/20-01-04, 1-0884/20-01-02

9 Compliance with the Essential Requirements, with the exception of those listed in section 19 of the schedule to this certificate, has been assured by compliance with:

EN 300 328 V2.2.2

EN 300 330 V2.1.1

10 This EU-Type Examination certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/53/EU. Further requirements of this Directive apply to the manufacture and supply of this equipment. These are not covered by this certificate.

11 This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the rules of the Element Materials Technology Radio Certification Scheme and remains valid for only so long as the equipment conforms to the type described herein.

12 Any deviation to the design and construction of the specified equipment that is not certified by Element Materials Technology shall render this certificate invalid.



Brian Fahey, Certification Engineer  
Signed for and on behalf of Element

Issue date:      2025-01-16

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15 **General description of equipment or protective system included within the scope of this certificate**

The ALTAIR ioDock is a calibration stand designed to calibrate an ALTAIR io 4 Gas detector. The system consists of two parts, a cylinder holder and a test stand. To provide the desired test gas to the gas detector, the test stand has to be connected to at least one cylinder holder containing calibration gas. In general, a bank can consist of up to 3 cylinder holders and 10 test stands connected together. The cylinder holder contains a 13.56 MHz RFID radio. The test stand contains a Bluetooth Low Energy and 802.11b/g/n radio.

16 **Technical description**

|                           |                           |
|---------------------------|---------------------------|
| Frequency bands:          | 2402-2480 MHz             |
| Modulation:               | GFSK                      |
| Transmit power:           | 13 mW                     |
| Type of antenna and gain: | PCB; +2.5 dBi             |
| Frequency bands:          | 2412-2462 MHz             |
| Modulation:               | BPSK/CCK/QPSK/16QAM/64QAM |
| Transmit power:           | 25.1 mW                   |
| Type of antenna and gain: | PCB; +2.5 dBi             |
| Frequency bands:          | 13.56 MHz RFID: 13.56 MHz |
| Modulation:               | ASK                       |
| Transmit power:           | 63.1 mW                   |
| Type of antenna:          | PCB trace, Loop           |
| Firmware version:         | 0.19.0001                 |
| Software version:         | 0.19.0001                 |

17 **Technical Documents describing the certified equipment**

The list of technical documents is given in Appendix A to this schedule.

18 **Test report No. (associated with this certificate issue):**

Element reports:

MSAS0023

MSAS0023.6 Rev 2

MSAS0023.3

Northwest EMC reports:

ETHE0008.8

ETHE0018.2

CTS Advanced reports:

1-0884/20-01-04

1-0884/20-01-02

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19 **Essential Requirements (Directive Article 3)**

Article 3.2 is covered by application of the standards listed in section 9 of this certificate and the assessment conducted in the test report/s listed in section 8 of this certificate.

20 **“Restrictions on Use”, if any:**

None.

21 **“Routine tests”, if any:**

None.

22 **Other information, if any:**

None.

23 **Photographs**



24 **Details of markings**



Alternative model label:



## SCHEDULE TO EU TYPE EXAMINATION CERTIFICATE

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### 25 Details of variations to this certificate

This certificate is a consolidated certificate and reflects the latest status of the certification, including the following variations:

Variation V1 - Added alternative model name ALTAIR io 4 DOCK

### 26 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

### 27 Notes to this certificate

Element Materials Technology certification reference: Project numbers TS-MSAS-0014, TS-MSAS-0017

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Notified Body 0981 is the designation for Element Materials Technology, Portland-Evergreen Inc..

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations.

### 28 Conditions for the validity of this certificate

This certificate remains valid for **18 months after the date of issue** so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the technical documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Requirements relating to the design and construction of radio equipment given in the Articles of the Directive listed in section 8 of this certificate and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).

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**APPENDIX A - LIST OF TECHNICAL DOCUMENTS**

| <b>Title:</b>  | <b>Document/file name:</b>                                | <b>Rev. Level:</b> | <b>Issue date:</b> |
|----------------|-----------------------------------------------------------|--------------------|--------------------|
| Technical file | Altair io Dock Technical Construction<br>File for Element | 1                  | 2025-01-15         |

