

## CERTIFICATE OF TYPE APPROVAL FOR RTTE EQUIPMENT

Type Approval Reference: CRA/SM/2022/S-0011151

Company/Establishment: 7Layers GmbH

Address: Borsigstreet.12, Ratingen, Germany

Date of Issue: 10/5/22

Equipment Details			
Equipment Category	Short Range Devices		
Type	Transceiver	Maximum Output Power	28.7 dBm
Manufacturer	VEGA Grieshaber KG	Rx Sensitivity	-100 dBm
Model	VEGAPULS Air 41 (LoRa)		
Frequency Band(s)	R1: 75.0 GHz-85.0 GHz, R2: 2400.0 MHz-2483.5 MHz, R3: 13.56 MHz-13.56 MHz, R4: 863.0 MHz-870.0 MHz,		
Channel spacing	N/A		
Additional Comments	N/A		

Antenna Details			
Antenna type	Integral	Gain	25.70 dBi

### Conditions:

- Type approval or acceptance certificate is valid only for the type, model and the intended purpose mentioned.
- The equipment should be used only for the intended purpose as approved. E.g. mobile telephony, telemetry, data transmission, video, radio-relay link, fixed point-to-point, point-to-multipoint link, other usage not permitted.
- Only type-approved equipment can be imported. Dealers/Users will obtain prior permission to import from CRA.
- Any deviations from the approved specifications will render this approval invalid.
- It is an offence to use unapproved, unlicensed equipment and outside the terms of the license.

هذه الشهادة لا تخول حاملها الحق في استيراد أي كمية أو عينات من أجهزة الاتصالات السلكية واللاسلكية

**THIS CERTIFICATE DOESN'T PERMIT IMPORT OF ANY QUANTITY OR SAMPLE OF TELECOM EQUIPMENT**

Date: 10/5/22

## CERTIFICATE OF TYPE APPROVAL FOR RTTE EQUIPMENT

Type Approval Reference: CRA/SM/2022/S-0011152

Company/Establishment: 7Layers GmbH

Address: Borsigstreet.12, Ratingen, Germany

Date of Issue: 10/5/22

Equipment Details			
Equipment Category	Short Range Devices		
Type	Transceiver	Maximum Output Power	28.7 dBm
Manufacturer	VEGA Grieshaber KG	Rx Sensitivity	-100 dBm
Model	VEGAPULS Air 41 (NB-IoT, LTE-M1)		
Frequency Band(s)	R1: 75.0 GHz-85.0 GHz, R2: 2400.0 MHz-2483.5 MHz, R3: 13.56 MHz-13.56 MHz, R4: 790.0 MHz-862.0 MHz, R5: 1559.0 MHz-1610.0 MHz, R6: 880.0 MHz-960.0 MHz, R7: 1710.0 MHz-1880.0 MHz, R8: 1920.0 MHz-2170.0 MHz,		
Channel spacing	N/A		
Additional Comments	N/A		

Antenna Details			
Antenna type	Integral	Gain	25.70 dBi

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Date: 10/5/22

## CERTIFICATE OF TYPE APPROVAL FOR RTTE EQUIPMENT

Type Approval Reference: CRA/SM/2022/S-0011150

Company/Establishment: 7Layers GmbH

Address: Borsigstreet.12, Ratingen, Germany

Date of Issue: 10/5/22

Equipment Details			
Equipment Category	Short Range Devices		
Type	Transceiver	Maximum Output Power	28.7 dBm
Manufacturer	VEGA Grieshaber KG	Rx Sensitivity	-100 dBm
Model	VEGAPULS Air 41 (NB-IoT, LTE-M1, LoRa)		
Frequency Band(s)	R1: 75.0 GHz-85.0 GHz, R2: 2400.0 MHz-2483.5 MHz, R3: 13.56 MHz-13.56 MHz, R4: 863.0 MHz-870.0 MHz, R5: 790.0 MHz-862.0 MHz, R6: 1559.0 MHz-1610.0 MHz, R7: 880.0 MHz-960.0 MHz, R8: 1710.0 MHz-1880.0 MHz, R9: 1920.0 MHz-2170.0 MHz,		
Channel spacing	N/A		
Additional Comments	N/A		

Antenna Details			
Antenna type	Integral	Gain	25.70 dBi

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