File
LR3081

CERTIFICATE OF COMPLIANCE
(ISO TYPE 3 CERTIFICATION SYSTEM)

Issued to	i.safe MOBILE GmbH	
Address	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany	
Project Number	LR3081-2R1	
Product	Intrinsically Safe 5G Smartphone	
Model Number	IS540.1	
Electrical Ratings	Internally battery operated. Permanently installed Lithium-ion-polymer battery (4400mAh)	
Markings	Class I, Division 1, Group ABCD, T4 Class II, Division 1, Group EFG, T4 Class III, Division 1 T4 Intrinsically Safe -20°C ≤ Tamb ≤ 55°C, IP64	
Applicable Standards	CSA C22.2 No. 60079-0:15 4th ed CSA C22.2 No. 60079-11:14 2nd ed.	UL 60079-0 7th ed. UL 60079-11 6th ed. UL 913 8th ed.
Factory/Manufacturing Location	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen, Germany	
Conditions of Certification	See Annex A	

Statement of Compliance: The product(s)/equipment identified in this Certificate and described in the Certification Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.

IMPORTANT NOTE: In order to maintain the integrity of the QPS Mark(s), certification will be revoked if:

(1) Compliance to the above-mentioned Standard(s), or those identified in future QPS Standard Update Notice – SUN (QSD 55) is not maintained, or,

(2) If the product/equipment is modified after certification is granted without prior written consent by QPS

Issued By: Rob Kohuch, P.Eng.
Senior Engineer, Hazardous Locations [Ex]

Signature: Rob Kohuch Date: November 3, 2023

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Annex A: Conditions of Certification:

1. The battery may only be charged outside of the hazardous area.
2. WARNING: Only charge the device using the i.safe PROTECTOR 2.0 USB-C Cable or other charging equipment approved by i.safe MOBILE GmbH.
3. The IP-protection, it has to be ensured that all gaskets are present and functional. There must be no large gap between the two halves of housing and between the battery compartment cover and housing.
4. The device must be protected from excessive exposure to UV light emissions and aggressive acids or alkalis.
5. The device must be protected from high electrostatic charge environments and processes.
6. The covers of all interfaces (USB, ISM interface) must be closed.
7. The device is intended to be carried over during use in the hazardous area.
8. The Headsets (IS-HS2A.1, IS-HDHS1A.1, IS-HDHS1B.1 and the PTT Button IS-PTTB1A.1) or other accessories approved by i.safe MOBILE GmbH may be used within explosion hazardous areas only if connected to the ISM interface. The connector must be securely fastened to the ISM interface.
9. The microSD cards IS-SD164.1 and IS-SD1128.1 may be used in the corresponding slot in the hazardous area. Alternatively, the SD card port has the following intrinsic safety entity parameters:
   Uo/Voc=4.35 V
   Co/Ca=80 µF
   Lo/La=1 µH
   A commercially available microSD card may be used in the corresponding slot in potentially explosive atmospheres. The internal electrical capacitance and inductance are negligible, respectively correspond to the intrinsically safe connection parameters.
10. Nano-SIM cards which comply with the following intrinsic safety entity parameters, may be used in the corresponding slots in the hazardous area:
    Uo/Voc=4.35 V
    Co/Ca=80 µF
    Lo/La=1 µH
    A commercially available nano-SIM card may be used in the corresponding slot in potentially explosive atmospheres. The internal electrical capacitance and inductance are negligible, respectively correspond to the intrinsically safe connection parameters.