


SmartSole

	Performance features	Technical data	
Product description	Housing	TPU/epoxy resin/aramid	
	Communication technologies	GSM/GPRS/LTE-M/NB-IoT/BLE	
	Radio frequencies	850/900/1800/1900/1575/2400 MHz	
	Geolocalization	GNSS multi-constellation 72 channels, sensitivity -166 dBm	
	Connectivity	Multioperator-SIM	
	Operating temperature	up to 50°C	
	Software updates	FOTA (Firmware Update Over the Air)	
	Security	TLS	
	Measurements	Width	5 cm
		Height	0,7 cm
Length		12 cm	
Weight		80 g (electronic module only)	
Weight		130g (module and sole)	
Electromagnetic compatibility (EMC)	The electronic module meets the requirements of the European directives for short-range transmitters.	Radio Equipment Directive (RED) 2014/53/U	
		Low Voltage Directive (LVD) 2014/35/UE	
		Electromagnetic compatibility (EMC) Directive 2014/30/U	
Environment	Special waste treatment may be required. For further information, please contact your local authorities. The charger can be dismantled for material recovery.		
Mobile radio	2G GPRS radio modem	Band EGSM 900MHz -> power class 4: 33dBm, Rx sensitivity: -107dBm Band DCS 1800MHz and PCS 1900MHz -> power class 1: 30dBm, Rx sensitivity: -107dBm	
	4G LTE Cat M radio modem	B3, B8, B20, B28 bands -> power class 5: 21 dBm, Rx sensitivity according to the bands: B3: -105 dBm, B8: -106dBm, B20: -105dBm, B28: -107dBm	
	Bluetooth 5.1 Low Energy - Long Range 2.4 GHz modem	Maximum transmission power 5mW	
	Multi-constellation GNSS with 72 channels	GPS, Galileo, Glonass, Baidu. Rx sensitivity: -166 dBm	
	Integrated BAN (Body Area Network) antennas for proximity to the human body		
	Electromagnetic compatibility (CE standard)		
SIM card	Integrated multi-carrier M2M SIM card for GSM communication; European coverage, global coverage as an option		
Geolocalization	Outdoor	Assisted GPS, multi-constellation GNSS	
	Indoor	XSpot TRAXxs beacons	
	GDPR	Transmission of the individual positions only in the event of an alarm	
Battery	Built-in Li-Ion battery	680mAh (2.51Wh) capacity	
	Inductive charging (Qi)		
	Battery life		10 hours uninterrupted
Temperatures	Utilization	-20°C to +50°C	
	Loading	+0°C to +40°C	
Water	Waterproof and dustproof	IP68	

Subject to change without notice