Mobile GSM-R Modem

f.locX
by funkwerk

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traffic & control communication
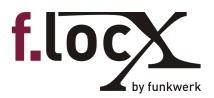
The f.locX is a mobile GSM-R modem with battery, bluetooth interface and status indicators.

This modem is coupled to mobile devices via a low-power Bluetooth 4.0 and can be used in the GSM-R and GSM network for data transmission, voice communication and SMS.

The f.locX will be used together with an Android operating system is required, e.g. commercially available smart phones or tablets.

GSM-R-specific functions of the EIRENE device classes GPH, OPH and OPS can be realized with this combination. Data transfer of the operational data is possible over the GSM-R network, too.

Thus a secure transmission path (GSM-R) will be provided for regular smartphones and tablets, which are usually available only for a few months terminals.

Therefore the f.locX provides a safe GSM-R communication for already existing smartphones too.

Characteristics

f.locX

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Radio Characteristics

Power supply	Lithium-ion battery 3,8 V / 2600 mAh
Operating time rechargeable battery	according to EIRENE SRS
Frequency bands	GSM-R, ER-GSM, GSM900, E-GSM900, DCS 1800
Transmitting power	2 W (GSM / GSM-R), 1 W (DCS 1800)
Data transmission	GPRS class 10
Modulation type	GMSK
Channel wide	200 kHz

Environmental Characteristics

Operating temperature	0 °C to 45 °C
Storage temperature	-20 °C to 55 °C
Protection class	IP 20 according to DIN EN 60529
EMC	according to DIN EN 50121-4, DIN EN 50121-3-2, DIN EN 50081-2
Vibrations / shocks	according to DIN EN 61373
Device security	according to DIN EN 60950-1

Interfaces

Service / charging IF	Micro USB
Device coupling	Bluetooth 4.0 class 2

Miscellaneous

Signalling	3 color LED (green, yellow, red) for operating conditions blue LED for Bluetooth connection
Operational elements	button ON/OFF and pairing Bluetooth, emergency button
Charging	via USB or via wireless Power according Qi standard
Software update	via USB or Bluetooth
Type of SIM card	Mini SIM
Device support / display	Display size: Smartphone ab 4", Tablet 7 bis 10" Display resolution: from 800 x 480, recommended 1.280 x 768 or higher
App support	from Android 4.3
Scope of delivery	f.locX, power supply, USB data cable
Accessory (optional)	Protective covers with IP54

Extras

OTA - SIM upgrade support	automatic band recognition
SMS	Belt clip

Dimensions & Weight

Height	108 mm
Width	68 mm
Depth	23 mm
Weight (incl. battery)	180 g