



IS440.1 – ATEX CERTIFIED COMMUNICATOR

- 5G Atex certified communication device in RSM design (small, very compact housing for an Atex 5G broadband device).
- PTT communication without limits → all devices (worldwide) with the respective PTT application can communicate with each other (group communication).
- The IS440 serves the current need for broadband communication devices for migration (substitution) from DMR/TETRA to broadband-based standard devices.
- Great savings potential in the area of maintenance → Substitution of the DMR/Tetra systems. The 4G/5G infrastructure, which already exists or is being further expanded as part of Industry 4.0, can be used. Advantages for the user: low maintenance costs, high reliability...
- Additional options compared to classic Tetra/DMR devices → 2.4" display, video (surveillance + conference), third-party APKs possible: e.g. Lone Worker Protection, localization.
- Integration into MDM infrastructure possible (legacy client).
- Target group: System providers of PTT communication solutions. All major PTT vendors supported like Motorola (Wave), Nokia, TASSTA, Airbus (Agent), Mobile Tornado (Instant Talk) etc.).



IS440.1 – ATEX CERTIFIED MOBILE 5G HOTSPOT

- With a special software extension and a more powerful battery, the IS440.1 becomes a powerful Atex 5G hotspot that brings WiFi-based devices such as the HMT into the 5G network.
- Up to 32 WiFi-based devices can be connected to the IS440.1 at the same time and connected to the Internet based on 5G.
- "White lists" can be created for authorized devices.
- Advanced DHCP/DNS management.
- Web interface for external administration (this is not standard on an Android based device).
- Battery life time in hotspot operation > 8h
- Target group: Anyone who wants to bring a WiFi-based device into the 5G network in the Atex area.



IS440.1 - COMMUNICATOR - 1ST ATEX 5G PTTOC (MCPTT) DEVICE

- Explosion-proof communication device
- Use of existing digital networks (4G & 5G)
- Substitution of DMR and TETRA devices
- Dedicated device for PoC and lone-workerprotection
- Additional functionality (more than DMR/TETRA)
 - Android OS (AOSP) no GMS!
 - Camera for video call and surveillance
 - Sensors for LWP capability + tracking
 - SOS button
 - 2,4" display
 - Hotspot capability (WiFi/Bluetooth ←→ 4G/5G



→ No GMS → no Zero Touch → only MDM legacy clients possible!



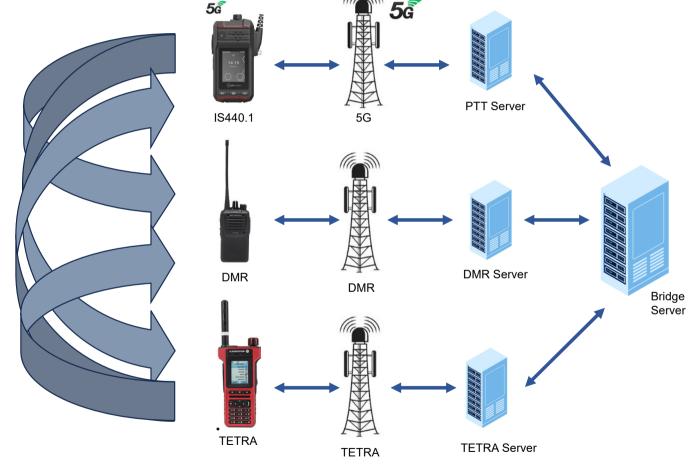
IS440.1 - ID





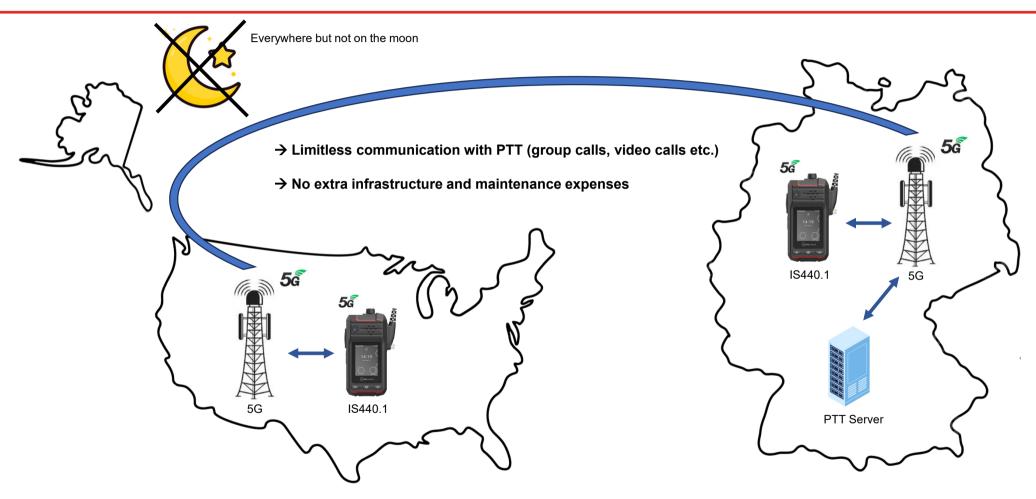
IS440.1 – COMMUNICATOR – SUBSTITUTION OF DMR'S

As long as the substitution is not yet complete, the various systems can communicate with each other via a central conversion server.





IS440.1 – COMMUNICATOR – PTT WORLDWIDE





IS440.1 – TECHNICAL SPECIFICATION

Operating system		ISM-OS
Processor		Qualcomm QCM6490
Memory		4 GB RAM
		64 GB internal memory
Frequency bands	4G - FDD	1/2/3/4/5/7/8/12/13/14/17/20/25/26/28/29/30/66/68
	4G - TDD	38 / 39 / 40 / 41 / 42 / 43 / 48
	5G	n1 / n2 / n3 / n5 / n7 / n8 / n12 / n20 / n25 / n28 / n38 / n40 / n41 / n48 / n66 / n77 / n78 / n79
SIM-card		Nano SIM & eSIM
МСРТТ		3GPP-Rel. 15 QCI: 1-9 / 65 / 66 / 69 / 70
Dimension weight		137 x 67 x 30 -34 mm ~ 322 g
Display		2,4 inch 240 x 320 px FHD Gorilla Glass® (3 rd generation)
Battery		2.400 mAh 4.800 replaceable
Camera		8 MP front camera
Wi-Fi		6 GHz: IEEE 802.11 a / b / g / n / ac / ax / e / k / r / v
Bluetooth		Version: 5.2
NFC		Supported
Location		GPS A-GPS Galileo Glonass Beidou
Sensors		Magnetic Accelerometer Gyroscope Barometer
Interface		8-pin ISM-Interface USB-C 3.1
Types of protection		IP68 MIL-STD-810H usable from -20° C to +55° C
Set content		IS440.1x Battery Power Adapter universal USB-C cable Screwdriver Display Protection Foil Quick Start Manual & Safety Instructions

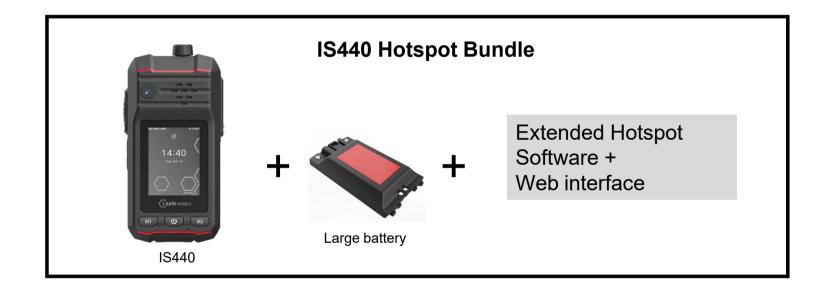


IS440.1 – EX APPROVALS

Approval	IS440.1	
ATEX	II 2G Ex ib IIC T4 Gb II 2D Ex ib IIIC T135°C Db	
UKEX	II 2G Ex ib IIC T4 Gb II 2D Ex ib IIIC T135°C Db	
IECEx	Ex ib IIC T4 Gb Ex ib IIIC T135°C Db	
NEC500	Class I Div. 1 Groups A, B, C, D, T4 Class II Div. 1 Groups E, F, G, T4 Class III Div. 1 T4	
EAC		
KCs		
INMETRO		
PCEC		
JNIOSH		
SANS		
ANZEx		



IS440.1 – "HOTSPOT BUNDLE"

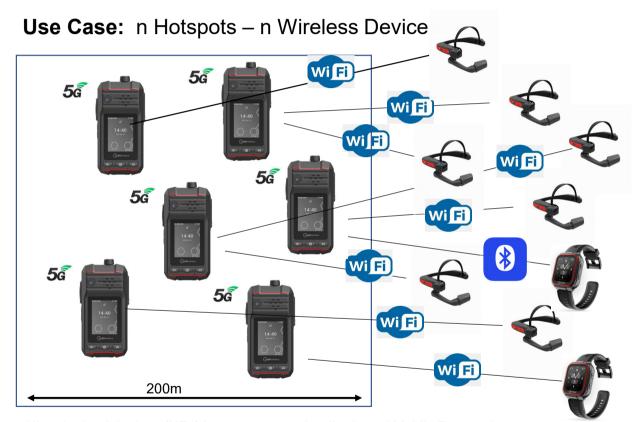




IS440.1 – "HOTSPOT BUNDLE"

Additional Hotspot Features:

- Connected devices: 32
- Turn off time setting possible
- DHCP&DNS:
 - first/last IP address can be set
 - max. number of clients can be set
 - · lease time can be set
- IPv6 (IPv4 standard)
- · White list for authorized devices
- User interface + <u>Web interface</u> for external configuration
- Battery 4.800 mAh > 8h running time



All authorized devices (UEs) have access to the distributed Mobile Routers in the area and select always the best WiFi connectivity



IS440.1 & IS-SW1.1 THE PERFECT LWP BUNDLE



(stand-alone)



IS440.1 & IS-SW1.1 THE PERFECT LWP BUNDLE



A complete guide on how to use the sensors can be found here: https://developer.android.com/reference/android/hardware/Sensor

