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Radiocommunication system **ZRK 3403**



- frequency band: 80, 160 and 450 MHz
- use of vehicular radio by officer outside vehicle
- wireless PTT button

Radiocommunication system

ZRK 3403

Permanent communication

Radio communication system ZRK 3403 improves communication inside a vehicle and in its close surrounding. Using ZRK 3403 an officer may go away from a vehicle or motorcycle into a distance of up to 200 meters keeping communication with the Center/Dispatcher. For this purpose it is only needed a retransmission unit which is installed in the vehicle or motorcycle as well as a small light-weight personal transceiver which may be fixed on an officer's uniform.

Wide range of accessories

The officer uses the personal radio 35010 which operates in 2,4 GHz band. The radio may be equipped with various accessories according to individual customer requirements. Under-helmet headset, external microphone speaker or wireless PTT button allow to use the radio with no need to keep it in one's hand. Particular improvement is wireless PTT button which may be fixed in any convenient place for customer and hence transmission may be established without removing hands from the steering-wheel or handlebar.



Motorcycle helmet with headset



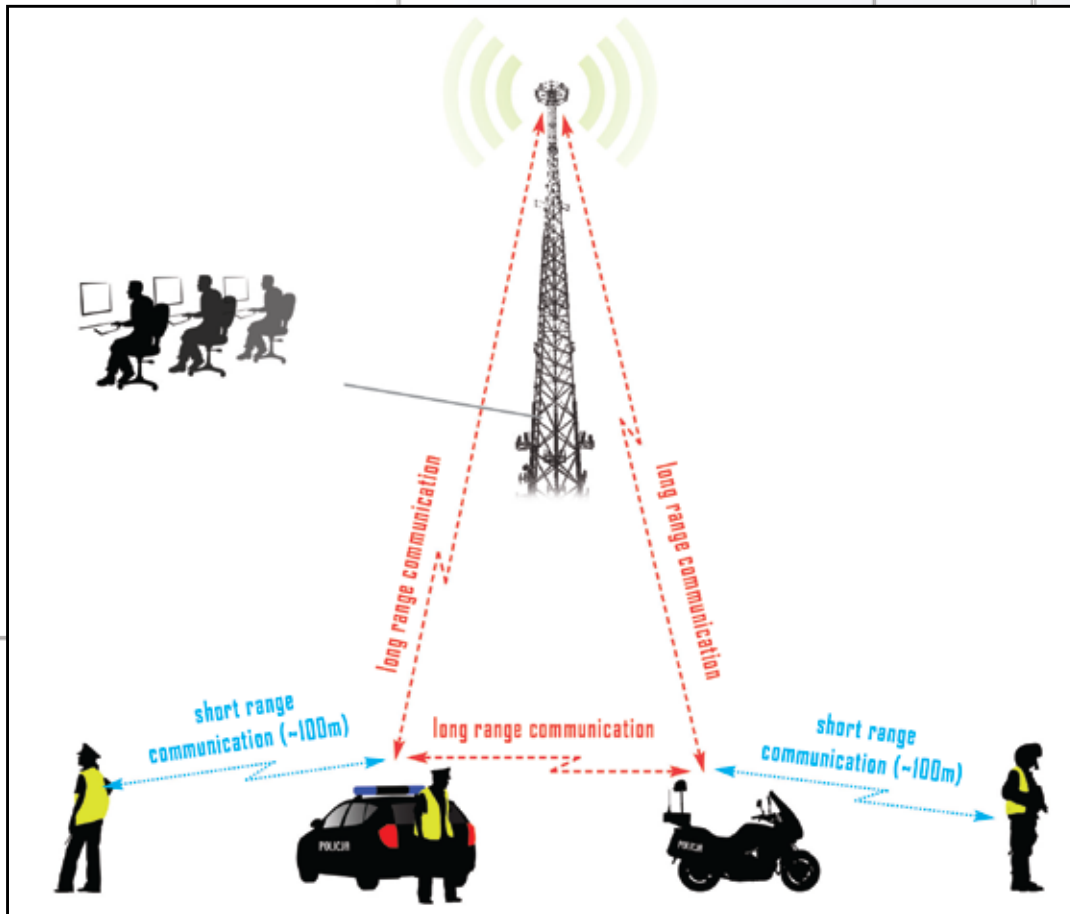
External microphone speaker



Exemplary installation of UR 3403 (depending on motorcycle type)

Small-size personal radio operating in 2.4 GHz band





An example of the system

For proper operation it is required to install a retransmission unit UR 3403 which enables to send voice signals between personal radio and base station. Retransmission station operates in 68-88 MHz, 146-174 MHz or 400-470 MHz. The unit UR 3403 is equipped with antennas, appropriate for required frequency, and autonomous power supply system with the option of automatic supercharge from vehicular installation.

Safety

ZRK 3403 provides safe and reliable radio communication. Radio 35010 is fully digitized unit with high resistance to radio interferences as well as eavesdropping. Each radio transmission is coded with secure enciphering algorithm with use of a key defined by a radio communication network controller.



Radiocommunication system

ZRK 3403



Technical specification

Retransmission Unit UR 3403

| | | | |
|----------------------|-------------|------------------|---------------|
| Frequency band | 68 - 88 MHz | 146 - 174 MHz | 400 - 470 MHz |
| Number of channels | up to 511 | up to 511 | up to 511 |
| RF output power | 10 W | 10 ÷ 25 W | 10 W |
| Receiver sensitivity | ≤ 0,4 μV | ≤ 0,4 μV | ≤ 0,4 μV |
| Modulation | F3E | F3E | F3E |
| Channel spacing | 12,5 kHz | 12,5 kHz, 25 kHz | 12,5 kHz |
| Supply voltage | 12 V | 12 V | 12 V |

Personal Radio R35010

| | |
|-------------------------|-----------------------|
| Frequency band | 2410 - 2470 MHz |
| Modulation | O-QPSK with DSSS |
| Access at full duplex | TDMA |
| Sensitivity | - 98 dBm (3μV) |
| RF output power | 100 mW |
| Number of channels | 13 |
| Channel spacing | 5 MHz |
| Supply voltage | 2,0 V ÷ 3,6 V (2x AA) |
| Transmission activation | wired and wireless |



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