

Trunking communication system TETRA «MiniCom» with coverage capacity up to 10 000 customers, developed by Russian company "Informtekhnik". TETRA "MiniCom" - modern solution to provide the critical communications system at the enterprise, it is a complete alternative for products of foreign manufacturers Hytera, Sepura, Motorola, Cassidian.

«Minicom-TETRA» series equipment includes infrastructure and customer-premises equipment on which basis the networks of different configuration and different purposes can be built.

The main parameters of mobile radio networks, created using the «Minicom-TETRA» equipment are shown in the **table 1**.

## List of «MiniCom-TETRA» for creation of mobile radio networks of TETRA standard

- |   |   |
|---|---|
| • Switching exchange «MiniCom-KSR»          | Speaking monitoring terminal «MiniCom-TTO-KP» • |
| • Base station «MiniCom-BSR»                | Mobile radio station «MiniCom-AVR-1» •          |
| • Base station «MiniCom-BSR»                | Portable radio station «MiniCom-ANR» •          |
| • Maintenance access terminal «MiniCom-TTO» | Modem MiniCom MT-1 (embedded) •                 |
| • Dispatch office «MiniCom-TTO-DS»          |   |

## System capabilities

### System provides

- quick connection setup (up to 0,3 sec);
- individual call (radio user to radio user);
- emergency call (priority service);
- group call (radio user to radio user group);
- dispatch communication (dispatch station - radio user/ radio user group);
- connection between radio users without using basic equipment (direct mode communication DMO);
- priority setting of the certain user category;
- text-message transmission with notification;
- determination of user status (online/offline);
- calling line identification;
- intercommunication of radio users with telecommunication system users (internal and external);
- radio users authentication (protection from doubles);
- radiocommunications recording;
- data transmission (of files, data packets).

### Conditions of use

- temperature conditions of basic equipment from +5 to +45 C;
- temperature conditions portable equipment from -20 to +60C;
- temperature conditions mobile equipment from -30 to +70C;
- **The basic equipment is powered from AC mains voltage 187-242 or DC mains voltage 43-60V.**

### Standalone downtime of:

- four-frequency base station - no less than 4 hours;
- two frequency base station - no less than 6 hours;
- switching exchange - no less than 8 hours;
- maintenance access terminal - no less than 5 hours;

**The average MTBF of software and hardware is at least 20,000 hours. Mobile radio communication equipment will provide high-quality radio communication with objects moving at the speed up to 300 km/hour.**

## Equipment of Minicom-TETRA system complies with:



**Aseismic class I by NP-031-01 (test procedure according to GOST 25804.3) and maintains operability during and after earthquakes up to and including SSE (7 on the MSK-64 scale);**

**Complies with GOST 50746-2000 requirements for Group III in terms of immunity to interference with functional quality criterion A, as well as meets the standards of GOST 50746-2000 on noise emission for Class A equipment.**

## The main parameters of the Minicom-TETRA mobile radio network

<b>Maximum number of customers</b>	10 000
<b>Maximum number of frequency channels</b>	
<ul style="list-style-type: none"> <li>• Without redundancy</li> <li>• With redundancy</li> </ul>	420 210
<b>System component connection interfaces</b>	E1 (E-DSS1), OKC №7, Ethernet
<b>Data transmission</b>	channel switching
<b>System component connection interfaces</b>	G.703, E1, Ethernet
<b>Frequency coverage</b>	380-400 MHz 410-430 MHz 450-470 MHz
<b>Transmitters power</b>	10W - 40W
<b>System elements powering</b>	48 V DC, 220 V AC

### CONTACTS:

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