

Trunking communication system <<MiniCom-TETRA>>

Trunking communication system TETRA «MiniCom» with coverage capacity up to 10 000 customers, developed by Russian company "Informtekhnika". 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»
- Base station «MiniCom-BSR»
- Base station «MiniCom-BSR»
- Maintenance access terminal «MiniCom-TTO»
- Dispatch office «MiniCom-TTO-DS»

- Speaking monitoring terminal «MiniCom-TTO-KP»
 - Mobile radio station «MiniCom-AVR-1» •
 - Portable radio station «MiniCom-ANR»
 - Modem MiniCom MT-1 (embedded) •

System capabilities

System provides

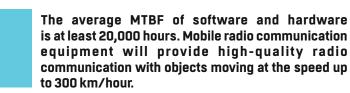
- quick connection setup (up to 0,3 sec);
- individual call (radio user to radio user);
- emergency call (priority service);
- group call (radio user to radio user group);
- dispatch communication (dispatch station -
 - radio user/ radio user group);
- connection between radio users without using
- basic 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 authentification (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;











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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	
Maximum number of customers	10 000
Maximum number of frequency channels	
 Without redundancy 	420
With redundancy	210
System component connection interfaces	E1 (E-DSS1), OKC №7, Ethernet
Data transmission	channel switching
System component connection interfaces	G.703, E1, Ethernet
Frequency coverage	380-400 MHz 410-430 MHz 450-470 MHz
Transmitters power	10W - 40W
System elements powering	48 V DC, 220 V AC