

MEGAPHONE

VOICE COMMUNICATION SWITCHING SYSTEM

MEGAPHONE VCSS is the high-tech voice communication system designed to arrange loudspeaker and telephone communication as well as to control air-ground and ground-ground radio communication.

The system is based on unified microcontrollers combined into duplicated IP network. Therefore, “one processor for one line” concept is implemented to provide high level of reliability and faultless operation of the system.

FUNCTIONALITIES

- Integrated radio, loudspeaker and telephone communication control at one touch-screen
- Access to all users or radio channels from any workstation without reconnection
- Simplex and duplex communication between users, selective, group nonselective calls, conference mode, direct and non-direct access
- Incoming calls queuing and selective answering arrangement
- Service features of phone communication (camp-on, forwarding, interception, intrusion etc.)
- Arrangement of groups of radio stations operating at the same frequency:
 - simultaneous transmission on several radio stations
 - best receiver selection (BSS)
 - automatic transmitter assignment (LOTS)
 - frequency intercom
- Signal rebroadcast between frequencies
- Feasibility to set several configurations for each workstation and prompt switching over between them (e.g. at sectors combining – separation)
- SELCAL support
- Built-in emergency alert subsystem

STRUCTURE

Interfacing equipment for:

- analog lines of various ground communications
- radio stations analog inputs
- digital lines of ground communication (E1, VoIP)
- radio stations digital inputs (VoIP)

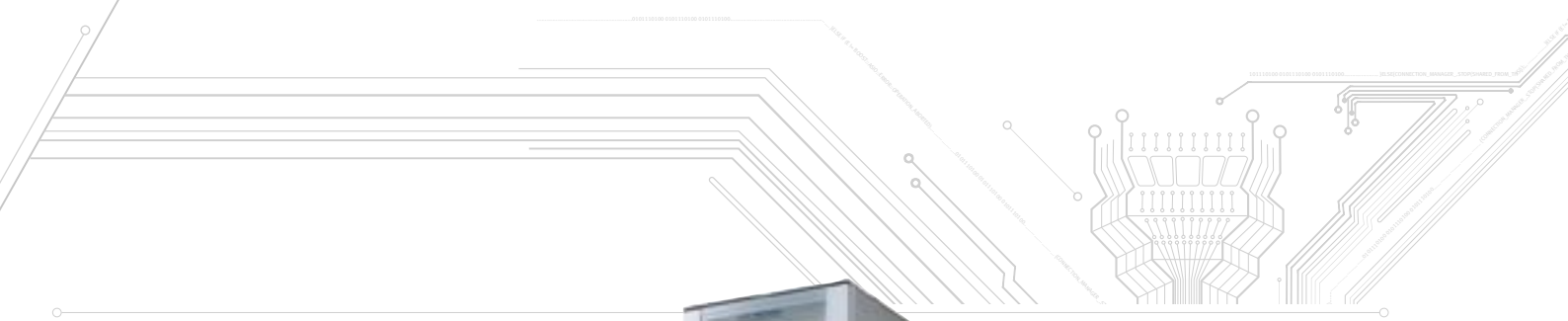
Communication environment equipment

Technical control and monitoring system including:

- technical control and monitoring stations
- configuration storage servers

Workstations equipment:

- embedded into consoles
- desk versions
- emergency alarm equipment



Ensuring high quality and reliability of communication MEGAPHONE VCSS is provided with friendly and intuitive interface.

The system is used to fit out controller and technical staff workstations of ATC centres (including modular and mobile towers and ATC simulators) and to provide voice communication to other types of companies and agencies.

MEGAPHONE VCSS is the most widely used communication system in ATC centers of Russia.

