BATTALION MOBILE COMMUTATION STATION

Battalion mobile commutation station (battalion MCS) is intended for commutation of speech and data between the users of the brigade mobile commutation station, mobile commutation stations of the same rank, infrastructure commutation station and mobile commutation stations of the lower rank, as well as for obtaining the communication between brigade command with superior and subordinate units . Battalion MCS is made of system cabin (K-30), additional cabin (K-15) and generator ADP-15

TECHNICAL CHARACTERISTICS:

Vehicle TAM-150 T 11 BV 6x6 intended for transport of K-30 cabin, battalion MCS commander, driver and radio operator in K-30 cabin.

Vehicle TAM-110 T 7 BV 4x4 intended for transport of K-15 cabin, one operator for RRD and one operator for ATC which at the same time drive the vehicle.

Generator ADP-15-3x400/230 on a trailer PS-15-V23a is used for power supply of K-30 cabins in field.

1) ***Commutation subsystem*** is intended to enable the distributed use of voice service and IP data on a command post, as well as their package integration and distribution from the command post toward predicted spot and vice versa.
2) ***Radio-relay subsystem*** is intended to enable transfer of speech, audio-frequency signals and data that are multiplexed by time allocation of channels as well as transfer of signals of digital automatic telephone centers, ATM and IP devices.
3) ***Radio subsystem*** is intended to provide exchange of voice and data between the station, increase of the range of the radio communication and retranslation between VHF and HF devices, as well as routing data inside and between VHF and HF radio devices.
4) ***Computer-software subsystem*** is intended for local and distant surveillance and control of other subsystems and devices integrated into battalion MCS.
5) ***Subsystem for data encryption (KzU)*** is intended for group encryption of data and information on radio-relay, optical and wired links in mobile operation conditions.
6) ***Cable transfer subsystem*** is intended for transfer of voice and data between the commutation stations.
7) ***Internal communication system (INTERCOM)*** is intended to provide mutual communication of all crew members of brigade MCS, as well as the VHF and HF radio link with radio network participants, and remote surveillance and control of brigade MCS.
8) ***Energetic subsystem*** provides power supply and distribution of energy to the user.
9) ***Cabin air-conditioning subsystem*** is intended for regulating the temperature and providing weather conditions for crew operation as well as for exhausting the smoke from the K-30 cabin if it occurs.

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