



Barnaul-T

The Barnaul-T baseline air defence command and control subsystem is designed to fit tactical units' air defence (AD) control posts (CP) with advanced automation, communication, and data exchange equipment in order to effectively control air defence troops and weapons, coordinate their activities, and increase their mobility and survivability under any combat conditions.

The Barnaul-T baseline set is used to equip:

- AD division/brigade CP (mission planning module (MPM) mounted on the 9S931-1 wheeled chassis);
- AD regiment CP (MP-K 9S931-1 and 9S931 MPM);
- AD battalion CP (9S931 MPM);
- battery command and control (C2) post (9S932-1 reconnaissance and control vehicle with 1L122-1E radar);
- MANPADS platoon C2 post (9S933 portable fire control unit);
- SAM squad – 9S935 MANPADS squad automation equipment set.

The configuration of the Barnaul-T baseline set depends on the organizational structure of Customer's tactical military units.

The baseline set performs the following major tasks in automated mode:

- athering (reception) of air situation data from superior, interacting, and subordinate C2 posts, and a heliborne radar picket system; target tracking, radar data identification and display; reception and display of data on the friendly aircraft patrol area, interception lines, flight corridors, and joint action and cooperation areas;
- reception of alerts and battle commands from the superior C2 post, generation of reports based on them and target tracks with flight parameters;
- control over subordinate C2 posts and radars, transmission of alert information and data on the areas (sectors) of responsibility to such C2 posts and radars; reception, processing, display, and transmission of operational/tactical information on the position, status, and battle readiness of friendly troops; target allocation at each level of command, transmission of target designation and cease-fire commands to subordinate assets, based on the battle readiness, availability of free target channels and missiles;
- equipment test, engagement process recording;
- stand-alone and system-level integrated training of combat crews.

Features and advantages:

- use of automation equipment at tactical level increases the efficiency of short-range SAM systems by up to 20% and reduces the expenditure of missiles per killed target by up to 30%;



- interoperability with other combatant arms and services of the armed forces;
- the tactical C2 system can be integrated into the Customer's current and future air defense C2 systems;
- the baseline set can be delivered in any configuration depending on the Customer's AD group structure and requirements;
- current hardware/software can be modified to ensure interface with foreign-made radar data sources and SAM systems.

Main characteristics:

- Track capacity, pcs:
 - 9S931-1 MP-K, 9S931 MP, 9S932 MRU-B: >80
 - 9S933 PMUO: ± 15
- Data update rate, s: 1 - 12
- Radar data processing and C2 cycle, s: ± 1
- Target designation and cease-fire command generation period, s: ± 2
- Number of automated workstations:
 - 9S931-1 MP-K: 6
 - 9S931 MP: 4
 - 9S932 MRU-B: 3
 - 9S933 PMUO: 1
- Number of including remote workstations :
 - 9S931-1 MP-K: 3
 - 9S931 MP: 2
 - 9S932 MRU-B, 9S933 PMUO: 1
- Communication range in a stationary position, km:
 - 9S931-1 MP-K, 9S931 MP, 9S932 MRU-B: 20
 - 9S933 PMUO: 3
- Communication range on the move, km:
 - 9S931-1 MP-K, 9S931 MP, 9S932 MRU-B: 10
 - 9S933 PMUO: 1
- Power consumption, kW:
 - 9S931-1 MP-K: 8
 - 9S931 MP: 6,8
 - 9S932 MRU-B: 7,5
- Chassis:
 - 9S931-1 MP-K: KamAZ 5350
 - 9S931 MP: MT-LBU
 - 9S932 MRU-B: MT-LBU
- Emplacement / displacement time, min: ± 7



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