



Buk-M2E

The Buk-M2E (9K317E) multi-channel, multifunctional, highly mobile medium-range surface-to-air missile (SAM) system is designed to engage strategic and tactical aircraft, helicopters (including hovering ones), cruise missiles and other aerodynamic aerial vehicles throughout their whole altitude envelope, tactical ballistic and air-launched missiles, and guided air bombs under intense ECM and enemy fire conditions, as well as destroy surface and ground radio-contrast targets.

The Buk-M2E SAM system includes combat assets, maintenance assets and training aids.

Its combat assets include:

- 9S510E command post (1)
- 9S18M1-3E target acquisition radar system (1)
- 9A317E self-propelled launch vehicles (up to 6)
- 9S36E illumination and guidance radar (up to 6)
- 9A316E launcher/loader vehicle (up to 12)
- 9M317 surface-to-air missile (SAM)

The SAM system is capable of operating both independently and as part of an air defence group.

For better survivability, the Buk-M2E uses unique target engagement modes and modern methods of protection against active and passive jamming, as well as precision-guided weapons.

Its combat assets can be mounted on cross-country tracked or wheeled chassis.

This is an all-weather system operating in different climatic zones at temperatures ranging from -50 to +50°C, at humidity of up to 98%. The crew compartments are equipped with air conditioning and heating units.

Main characteristics:

- Max target detection range using SAM's equipment, km: up to 150
- Engagement envelope, km:
 - max range: 45
 - min range: 3
 - altitude: 0,015 - 25
- Number of targets engaged simultaneously by a complete SAM system: up to 24
- Max target speed, m/s: 1200
- Max target load factor: 12



- One-missile kill probability:
 - aircraft and helicopters: 0,9 to 0,95
 - tactical ballistic missiles: 0,6 to 0,7
 - cruise missiles: 0,7 to 0,8
 - hovering helicopters: 0,3 to 0,4
- Reaction time, s: 10-12
- Missile/warhead weight, kg: 710
- Number of missiles, pcs.:
 - on 9A317E: 4
 - on 9A316E: 8
- Emplacement (displacement) time, min: up to 5 (12 – for IGR)



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