



BG Türkiye

BG AS-6 VTOL TACTICAL UAV (TECHNICAL SPECIFICATIONS)

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TECHNICAL BENCHMARK & CLASS COMPARISON

Parameter	BG AS-6 VTOL	Light VTOL UAV Class	Medium ISR VTOL Class
Platform Type	Hybrid VTOL Fixed-Wing / Multirotor	Multirotor / Light VTOL	Hybrid VTOL
Mission Profile	Tactical / Industrial / Special Ops	Short-range Inspection	ISR / Surveillance
Endurance	Up to 50–60 Mins (Mission-Optimized)	Low (15–20 Mins)	Medium (30–45 Mins)
Range Capability	Up to 50–65 Km (Extended Range)	Limited (10–20 Km)	Medium (30–40 Km)
Payload Capacity	Modular (Max. 2 to 6 Kg)	Light Payload Only (<1 Kg)	Moderate Payload (1–3 Kg)
Flight Efficiency	High (Cruise & Rocket-Assist Optimized)	Low to Medium	Medium to High
Deployment Model	Rapid Field Deployment (<5 Mins)	Immediate	Rapid
Environmental Adaptation	High (Industrial IP-Rated + Tactical Harsh Env.)	Low to Medium	Medium
System Architecture	Integrated AI-Assisted Autonomous Control	Basic Flight Controller	Semi-Autonomous

BG AS-6 PLATFORM MATRIX & TECHNICAL SPECIFICATIONS

Feature / Variant	AS-6 (A) Autonomous	AS-6 (F) FPV Tactical	AS-6 (EXT) Extended Range	AS-6 (REC) Reconnaissance	AS-6 (B) Basic
Flight Mode	Fully Autonomous & Manual	Manual / FPV	Fully Autonomous & Manual	Semi-Autonomous & GCS	Manual / FPV
Control Type	AI-assisted mission control	Pilot real-time control	AI-assisted mission control	Mission AI + cruise logic	Pilot real-time control
Primary Role	Interceptors / C-UAS	Loitering Munition	Loitering Munition	Surveillance-Reconnaissance	Tactical Kamikaze
Range Capability	40 Km	20 Km	50 Km	40 Km	10 Km
Operation Time	35 Mins.	20 Mins.	50 Mins.	45 Mins.	15 Mins.
Payload	Max. 6 Kg	Max. 4 Kg	Max. 2 Kg	None	Max. 1 Kg
Night Capability	Optional	None	Optional	Standard	None
Data Link	Wifi, Radio, 5G or Sat-Com*-Mesh**	Low latency FPV-ELRS or Fiber	Wifi, Radio, 5G or Sat-Com*-Mesh**	Wifi, Radio, 5G or Sat-Com*	Analog FPV-ELRS
Rocket Starter	Standard	Standard***	Standard	None	None
Camera Type	Thermal & Hybrid+Lidar	Thermal or Normal	Thermal & Hybrid+Lidar	Thermal & Hybrid-Multifocal	Thermal or Normal
Ground Radar	Optional	None	Optional & Radar Inside	Optional	None
Ground Control Station	Modular GCS or Heavy GCS	Remote Control+Goggles	Modular GCS or Heavy GCS	Modular GCS or Heavy GCS	Remote Control+Screen

*Sat-Com Integration: Fully compatible with next-generation LEO satellite networks (e.g., Starlink, Amazon Kuiper). Deployed on-site based on client-provided hardware and network infrastructure.

**Resilient Mesh Integration: Each asset operates independently as a fully autonomous unit, while coordinated cluster movements and real-time mission execution are controlled and monitored via the centralized Ground Control Station (GCS).

***Configuration Exclusion: The selection of the fiber-optic hardware architecture excludes the deployment of the integrated rocket propulsion module due to system layout and structural configurations.

****Electronic Warfare Resilience: Anti-jamming capabilities are available as a configurable option across all platform models to ensure operational integrity in contested environments.



Advanced Engineering & Autonomous Technologies

BG Türkiye is an advanced engineering and technology company operating in autonomous aerospace systems, industrial automation, and intelligent control infrastructures.

By combining aerospace engineering with industrial digital transformation expertise, BG Türkiye builds integrated hardware and software ecosystems that ensure high reliability, precision, and continuous operational performance under demanding conditions.

CORE CAPABILITIES

- **Autonomous Aerospace Systems:** Development of high-performance unmanned aerial platforms and autonomous VTOL systems designed for mission-critical and complex operational environments.
- **Industrial Automation & SCADA/DCS Architectures:** Engineering AI-supported industrial control solutions, real-time monitoring technologies, and resilient control infrastructures for heavy industry and energy sectors.
- **End-to-End System Integration:** Full product lifecycle management focusing on comprehensive architecture design, hardware-software integration, and rigorous field deployment.

ENGINEERING PHILOSOPHY

Technological Independence & System Resilience Our core focus is delivering long-term operational stability and adaptability in harsh environments, driven by scalable architecture design and robust, proprietary engineering.