

Caiman MTV

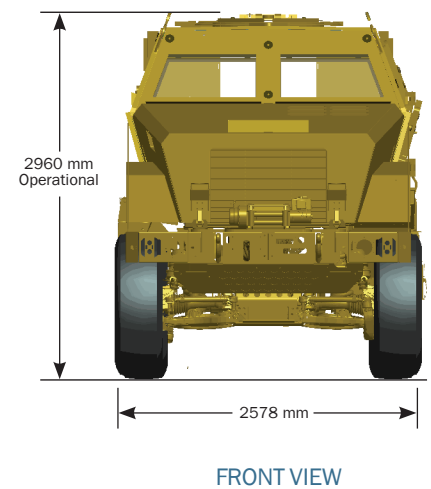
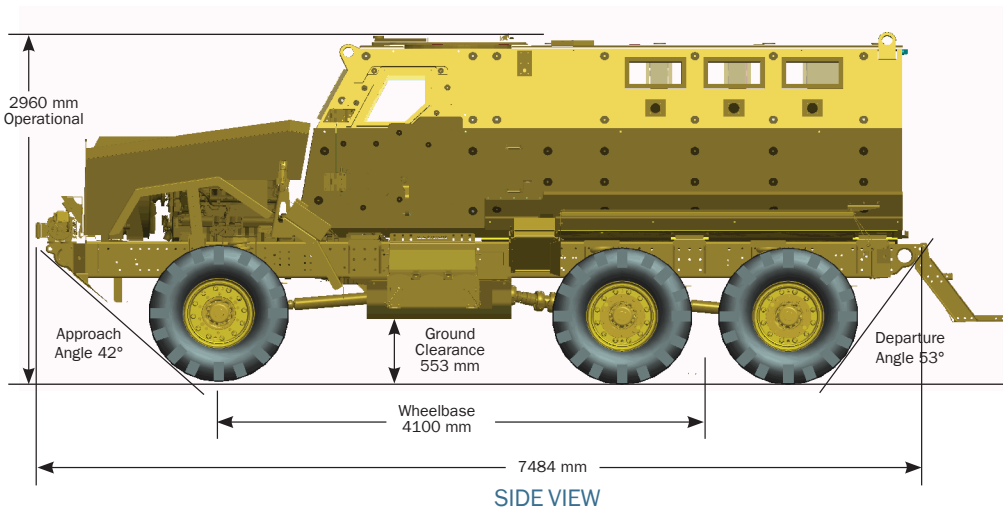
Caiman Multi-Theater Vehicle

The Caiman MTV from BAE Systems is a heavily armored, high mobility MRAP vehicle designed to meet the tactical mission requirements in Afghanistan and the variable environments of today's and tomorrow's operations. By combining the Caiman's proven crew and cargo capsule with an improved chassis that leverages readily available, commercial off the shelf (COTS) technology, the Caiman MTV is the perfect balance of interior capacity, tactical mobility and survivability required for troop transport, command and control and medical units.

The cost-effective Caiman MTV features an improved lateral stability, a robust independent suspension, and an upgraded temperature control system to navigate Afghanistan's extreme temperature changes and harsh terrain. The vehicle's enhanced monolithic floor, concentrically formed C-channel frame, blast-absorbing seats and the latest fire-suppression systems improve survivability. The new Caiman configuration can be delivered either as a new vehicle or chassis upgrade.

KEY FEATURES

- 10-man crew capacity for troop transport missions
- Supports a four litter ambulatory system with attendant
- Arvin Meritor Independent Suspension System
- Power train upgrade for CDD compliant terrain performance
- Full-time all wheel drive
- 5-ton HVAC temperature control system
- Monolithic floor upgrade that exceeds CDD threshold blast requirements
- Payload capacity up to 69,000 pounds GVW
- Armoring enhancement capable
- Accepts all types of manned and remote weapons stations
- 95 percent commonality with tactical wheeled vehicle National Stock Numbers already fielded in support of OEF
- Fully automatic transmission
- Electronic Central Tire Inflation System (CTIS)
- Anti-lock Braking System (ABS)
- Class V Interactive Electronic Technical Manuals (IETM)



Caiman-MTV

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VEHICLE SPECIFICATIONS

Length:	
Without Step	7484 mm (295 in)
With Step Down	8242 mm (325 in)
Width: (Wheel to wheel)	2578 mm (101.5 in)
Height: (Operational)	2960 mm (117 in)
Height - Pintle: unloaded	865 mm (34 in)
Wheel Base:	4100 mm (161 in)
Ground Clearance:	
Loaded	553 mm (22 in)
Under Axle	376 mm (15 in)
Approach/Departure Angle:	42° / 53°
Vehicle Curb Weight with Fuel:	27546 kg (60728 lbs)
Payload:	3752 kg (8272 lbs)
Towed Load:	> 5443 kg (12000 lbs)
Maximum Speed:	
Governed, at Gross Weight	77 mph
Range, 280 L (74 Gal) nominal:	testing required
Maximum Grade / Side Slope	60% / 30%
Turning Circle:	
Curb to Curb	19.4 m (63.5 ft)
Wall to Wall	20.4 m (66.9 ft)
Fording, without kit:	915 mm (36 in)

EQUIPMENT SPECIFICATIONS

Engine:	
Caterpillar C9	Heavy Duty Diesel, 6-Cylinder, Electronic Controlled, Fuel-Injected Turbocharged and Aftercooled, EPA Certified
Rating	336 kW (450 hp) @ 2100 rpm
Displacement	8.8 L (537 cu in)
Torque	1849 Nm (1364 lb-ft) @ 1600 rpm
Fuel	Diesel, DF-2, JP-4, JP-8, W-F-800
Oil	MIL-L-2104D, MIL-L-46167 32 L (34 qt)
Transmission:	
Caterpillar CX28	Automatic/Select 6-Speed, Electronically Controlled
Full Time All-Wheel Drive	2-Sp Remote Mount T-Case, Electronically Controlled
Normal Operation	30% Torque Front Wheels, 70% Torque Rear Wheels; Off-Road, Equal Front and Rear
Oil	MIL-L-2104D, MIL-L-46167 18.9 L (20 qt)
Axles:	
ArvinMeritor	Front, intermediate and rear axles
Diff lock	Front and rear axles, DCDL
Carrier	Single reduction Spiral Bevel
Wheel end	Planetary wheel end, reduction ratio 3.462:1
Overall ratio	6.182:1
Front axle steer angle	35°

Tires:	Michelin 395/85R20XZL All-Terrain
Brakes:	
Primary	Dual-Circuit, Four Channel Air, Anti-Lock Braking System (ABS) with Trailers ABS Connectors for Emergency Towing
Supplemental	Air Actuated, Driver Controlled Exhaust Brake
Central Tire Inflation System, Eaton:	
	Cab-Mounted Electronic Controls, Operable while Driving Highway, Cross-Country, Air Transport, Sand/Mud/Snow, and Emergency Modes
Suspension:	
Front & Rear	Dual rate coil springs and separate hydraulic shock absorbers to each wheel end, with stabilizer bars

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