TMSI Tactical Mobility Solutions International

TAC-6 MK II

Speed. Survivability. Superiority.

LIGHT FIGHTING VEHICLE 6×6



DOCTRINE · CONTEXT

The Battlefield Has Changed. Has Your Vehicle?

Three years of conflict in Ukraine have confirmed what the Middle East and the Sahel have long demonstrated: the modern battlespace is transparent, drone-saturated, and deeply hostile to large, slow, high-signature platforms.

Forces that move quickly, disperse rapidly, reduce their signature, and deliver effects without waiting for higher echelon support hold the decisive advantage. The limiting factor is no longer firepower. It is the kill chain.



The TAC-6 MK II is engineered for that battlespace - a 7,000 kg, six-wheel-drive light fighting vehicle that delivers tactical mobility, survivability, and platform adaptability in a single airliftable package.

DOCTRINAL SHIFT

Speed is the new armour. Insertion has replaced approach.

DOCTRINAL SHIFT

The limiting factor is no longer firepower. It is the kill chain.

MOBILITY

- Project fast. Operate independently.
- Get off the X.
- C-130, C-390 and CH-47 deployable.
- 160 km/h road speed.

FIRES

- Organic 120mm indirect fire capability.
- No allocation.
- No queue.
- No delay.
- Responsive to the platoon commander.

SURVIVABILITY

- Shoot and scoot.
- Mobile before counter-battery can respond.
- Low signature.
- Reduced acoustic and thermal footprint.

PLATFORM OVERVIEW - TAC-6 MK II

6×6 Light Fighting Vehicle · Heli-Portable · Multi-Role

7,000 kg
Combat Weight

20 YRS
DESIGNED SERVICE LIFE

160 km/h
Max Road Speed

6×6 AWD
Drive Configuration



1,200 km
Min. Operational Range

700 mm
Fording Depth



4,000 kg
Payload Capacity

2,000 km
Extended Range

ONE PLATFORM. THREE CATEGORIES REPLACED.
LMV · LAV · IFV — One logistics chain. One training baseline.

MOBILITY

Project Fast.

Operate Independently.

Get Off the X.

Theatre-ready within hours. Two TAC-6 MK II per C-130 Hercules. Internal CH-47 configuration. C-390 compatible. JP8 fuel — NATO standard.



160 km/h
Max Road Speed

Cross-country: 80 km/h

1,200 km
Min. Operational Range

Extended range: 2,000+ km

C-130 ×2
Air-Deployable

Fording: 700 mm without preparation

MOBILITY IS SURVIVABILITY

Active hydraulic platform on all four wheel stations

Toyota gives your force a global parts network. TMS gives your force a vehicle built to survive demands that commercial engineering cannot accommodate.

The TAC-6 MK II chassis is an entirely TMS-engineered structure. The Toyota Land Cruiser 70 Series provides proven, globally supported drivetrain components — retained deliberately for logistics resilience across 170+ countries. The chassis, body architecture, and structural system are designed and manufactured by TMS from the ground up.

170+ Countries with Toyota Land Cruiser parts support

AHSS + UHSS Structural steel specification

LOCKBOLT Joint technology — no weld fatigue



AHSS/UHSS STRUCTURAL STEEL

Advanced and ultra-high-strength steel construction. Maximum strength-to-weight ratio under sustained combat load.

20-YEAR DESIGNED SERVICE LIFE

No thread rotation, no re-torque requirements. Structural performance consistent from day one to end-of-life. Lower total cost of ownership.

LOCKBOLT PIN-AND-COLLAR JOINT

Minimal welding by design. Eliminates heat-affected zones, weld fatigue, and cracking in service. Vibration-proof. Consistent clamp force throughout service life.

SUSPENSION & STABILITY

VS3® VECTOR

Dynamic Hydraulic Stability System

Active suspension — all six wheel stations. Continuously monitored. Continuously adjusted.



PLATFORM LOCK

- Suspension locks in firing mode.
- Accurate weapon deployment on uneven ground.
- No preparation required.

FAIL-SAFE DEFAULT

- Reverts to conventional suspension on electrical failure.
- Mobility is never catastrophically lost.

REAL-TIME STABILISATION

- Active pitch, roll and yaw control at speed
- Crew fatigue significantly reduced on extended operations

AUTOMATIC LEVELLING

- Self-levels on gradients and side slopes
- for accurate weapon deployment and crew safety on side slopes.

ADJUSTABLE RIDE HEIGHT

- 1,890 mm to 2,250 mm On-the-fly
- Low profile for concealment or air transport
- Max clearance for terrain

SELF-RECOVERY MODE

- Active suspension assists in sand and mud
- Front-mounted winch as a secondary recovery system

POWERTRAIN & DRIVETRAIN

OE-Engineered Driveline.

OE-engineered driveline ·Torsion split · Electronic locking differentials

The right power. Delivered to all six wheels. Every time.

ENGINE

Toyota 1GD-FTV. 2.8L Diesel. 172 kW. 620 Nm. JP8-Capable

AUTOMATIC TRANSMISSION

ZF 8HP90 · 8-Speed Auto · 1,000 Nm input capacity. 11-tonne GCWR. 7.81 ratio spread. Predictive shift control. Torque converter lock-up all gears

TRANSFER CASE

High/Low range · Torsion split · Front & rear prop shafts

FRONT AXLE

Electronic locking differential. L-R

AXLES (6×6)

Electronic locking differentials
Equal torque — all 6 wheels simultaneously

MID + REAR AXLES

Electronic locking differentials. x2 axles

When locked, equal torque to all six wheels simultaneously.
Full 6-wheel drive traction in sand, mud, rock and slope

SURVIVABILITY

Armoured Cab.

Dynamic Hydraulic Stability System

"Built to keep the crew in the fight"

CREW CALLOUT CARD

- 4 CREW (DOUBLE CAB)
- ROPS
- 95th Percentile HFE Design
- HVAC: –32°C to +55°C
- 360° Camera System
- 12V/24V dual-voltage



UP-ARMOUR OPTION

Appliqué armour system available. Enhanced STANAG classification. Contact TMS for configuration details.

ROPS

Unibody structural frame with internal rollover protection. DEF STAN 00-056 compliant.

ARMOX 620T ARMOUR

High-hardness ballistic plate. Reduced weight at equivalent protection level. Repairable at depot.

STANAG 4569 LEVEL 1 / 2

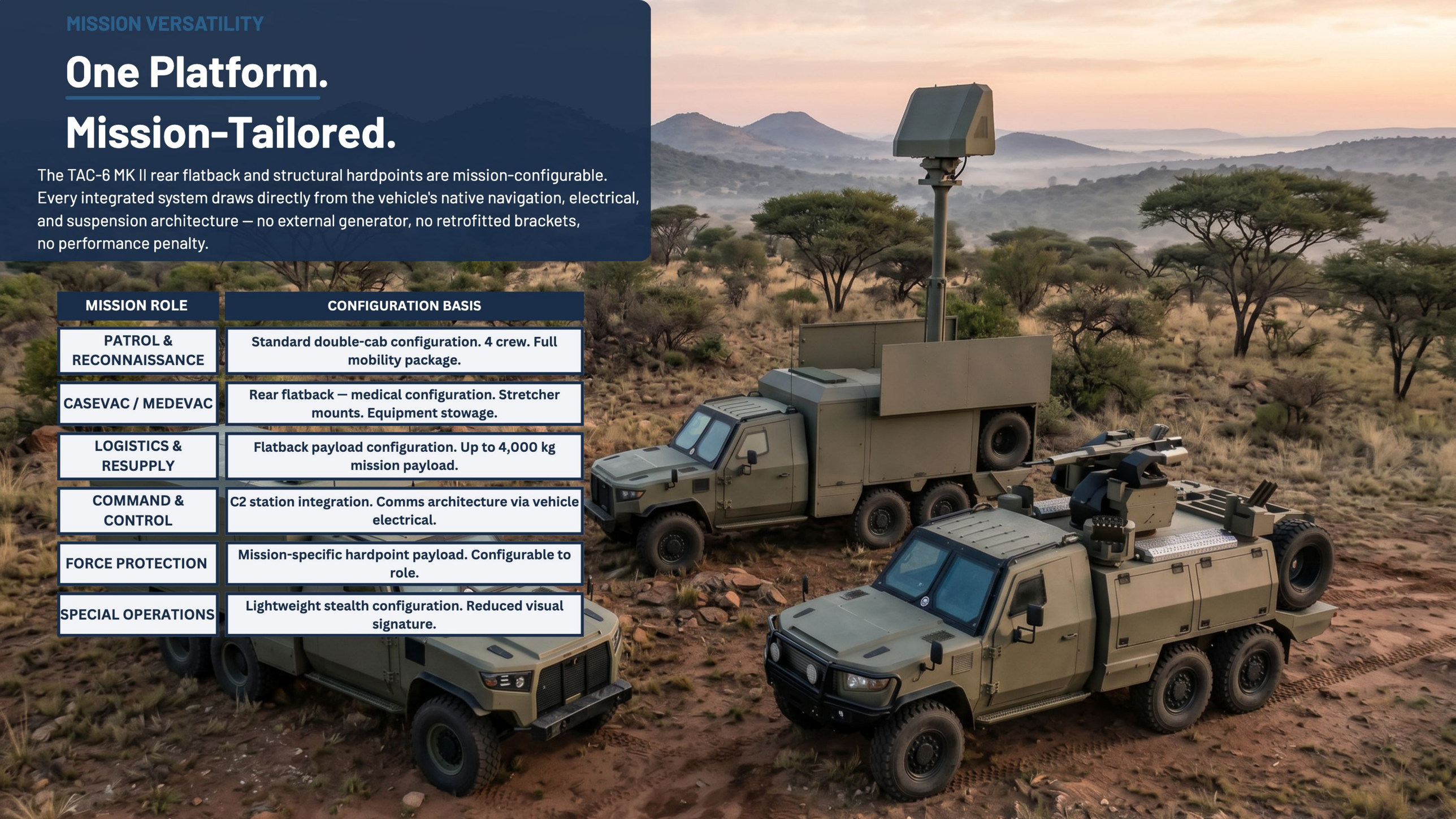
Protection against small arms fire, fragmentation, and blast effects.

MISSION VERSATILITY

One Platform.
Mission-Tailored.

The TAC-6 MK II rear flatback and structural hardpoints are mission-configurable. Every integrated system draws directly from the vehicle's native navigation, electrical, and suspension architecture — no external generator, no retrofitted brackets, no performance penalty.

MISSION ROLE	CONFIGURATION BASIS
PATROL & RECONNAISSANCE	Standard double-cab configuration. 4 crew. Full mobility package.
CASEVAC / MEDEVAC	Rear flatback — medical configuration. Stretcher mounts. Equipment stowage.
LOGISTICS & RESUPPLY	Flatback payload configuration. Up to 4,000 kg mission payload.
COMMAND & CONTROL	C2 station integration. Comms architecture via vehicle electrical.
FORCE PROTECTION	Mission-specific hardpoint payload. Configurable to role.
SPECIAL OPERATIONS	Lightweight stealth configuration. Reduced visual signature.



TECHNICAL SPECIFICATIONS

TAC-6 MK II — 6×6 LIGHT FIGHTING VEHICLE



Platform & Performance

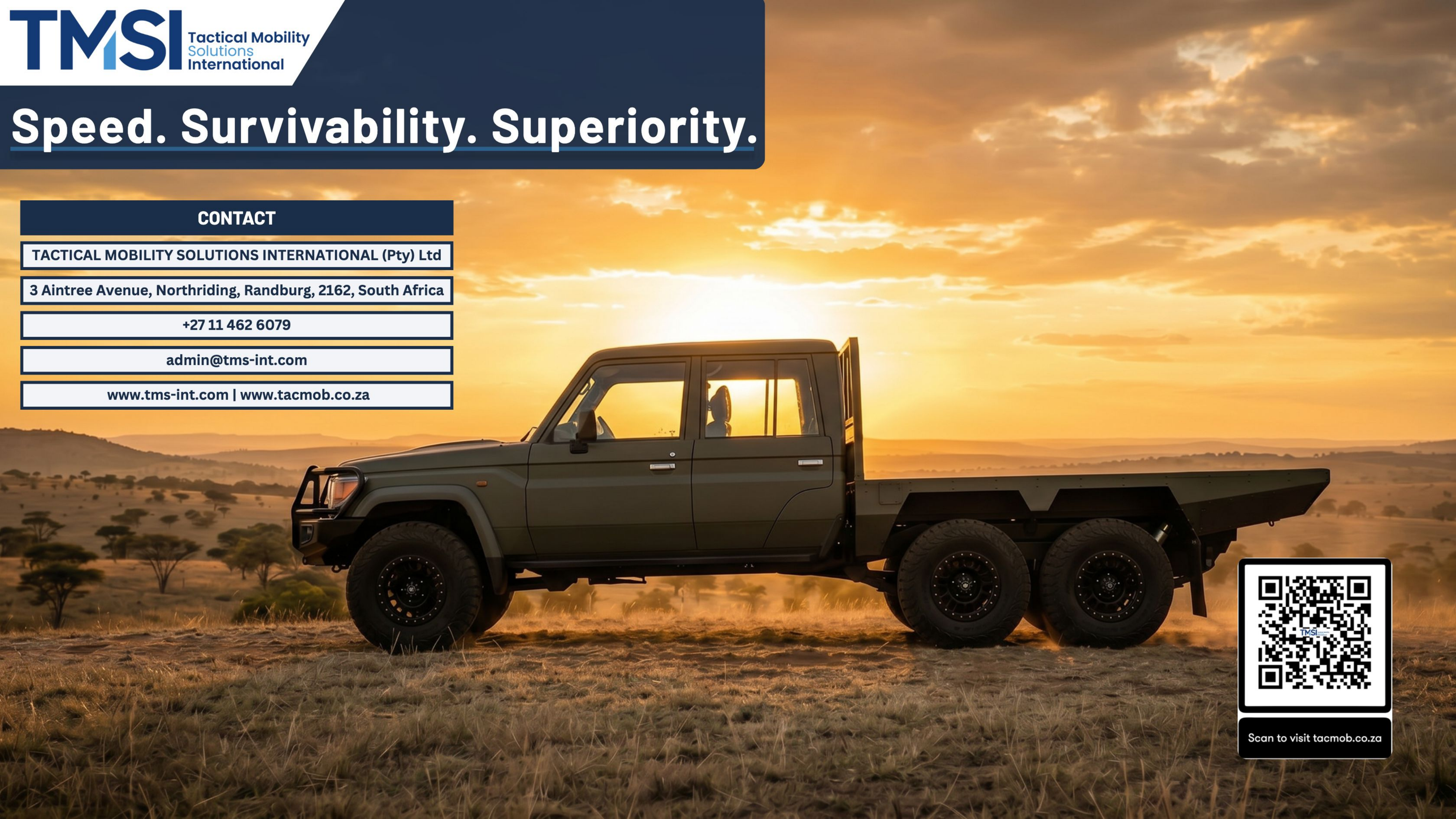
Vehicle Class	Light Fighting Vehicle (LFV)
Drive Configuration	6×6 Permanent All-Wheel Drive
Combat Weight (GVM)	7,000 kg
Max Road Speed	160 km/h (governable)
Cross-Country Speed	80 km/h
Operational Range	1,200 km minimum (standard fuel 310L)
Extended Range	2,000+ km (extended fuel configuration)
Fording Depth	700 mm without preparation
Payload Capacity	Up to 4,000 kg (mission configuration dependent)
Fuel Compatibility	Diesel / JP8 (NATO standard)
Crew	4 (Commander + crew, double cab)
Air Deployability	C-130 Hercules ×2 per aircraft · C-390 · CH-47 (internal)
Fuel Capacity	310 L standard

Engineering & Certification

Engine	Toyota 1GD-FTV · 2.8L Diesel· 172 kW · 620 Nm
Transmission	ZF 8HP90 · 8-Speed Automatic · 1,000 Nm input
Suspension	VS3® Vector Dynamic Hydraulic (active, all 6 stations)
Ride Height (adj.)	1,890 mm – 2,250 mm (on-the-fly)
Ballistic Protection	STANAG 4569 Level 1 (baseline)
Armour Material	Armox 620T ballistic plate
Up-Armour Option	Appliqué armour — enhanced STANAG level 2 (on request)
Rollover Protection	DEF STAN 00-056 compliant
HFE Design Standard	DEF STAN 00-25 · 95th percentile
HVAC Range	–32°C to +55°C
Chassis Standard	AHSS / UHSS structural steel · Lockbolt construction
Design Service Life	20 years
Manufacturer	Tactical Mobility Solutions (Pty) Ltd· South Africa

TMSI Tactical Mobility Solutions International

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