



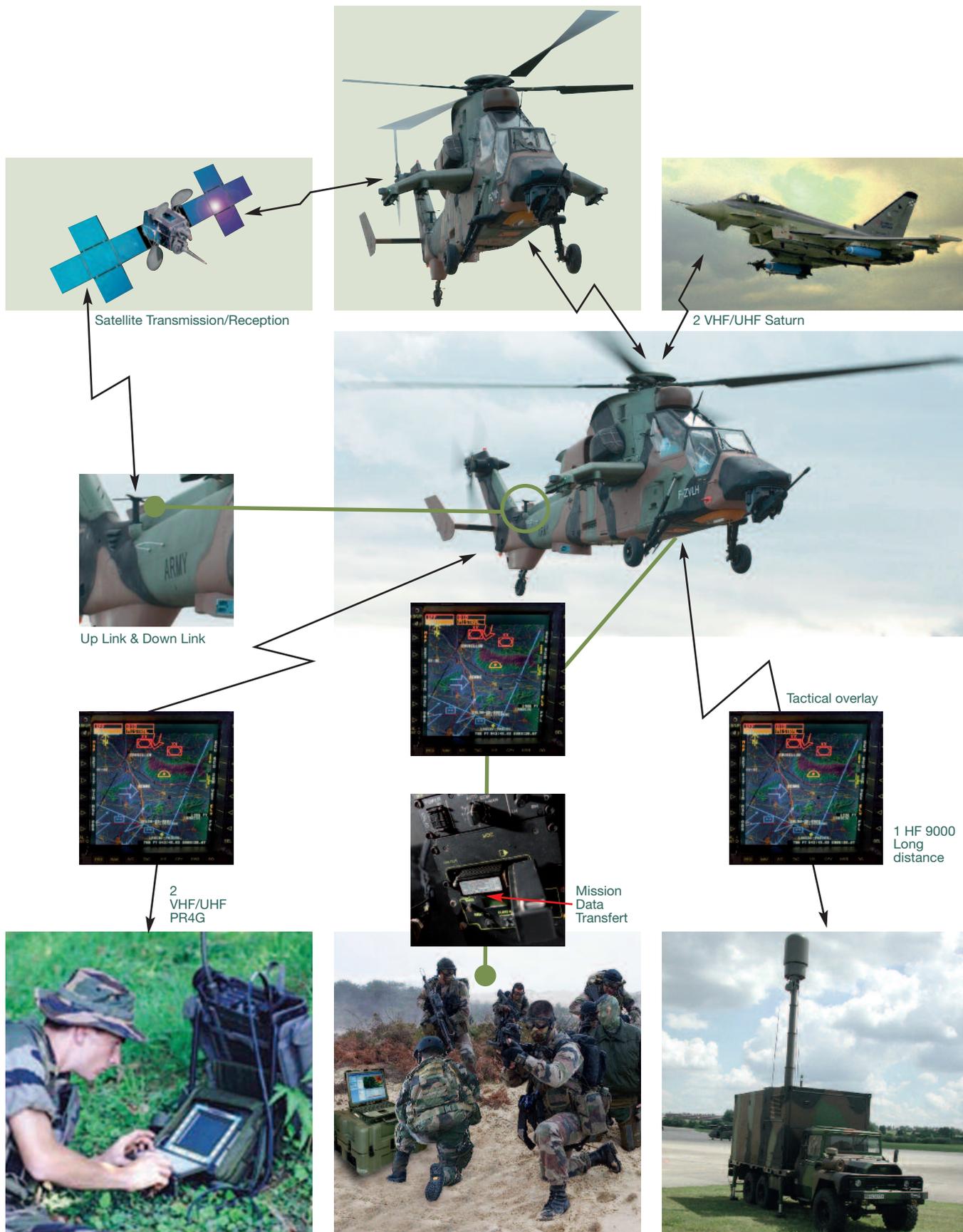
HELICOPTERS

Military

Tiger HAD

AIRBUS

Tiger in the digitized battlefield



Ground Station

«Not one step without my Tiger»

206 Tigers ordered. 1st serial delivery in 2005.
Operated by 4 armies worldwide.



Tiger firing rockets



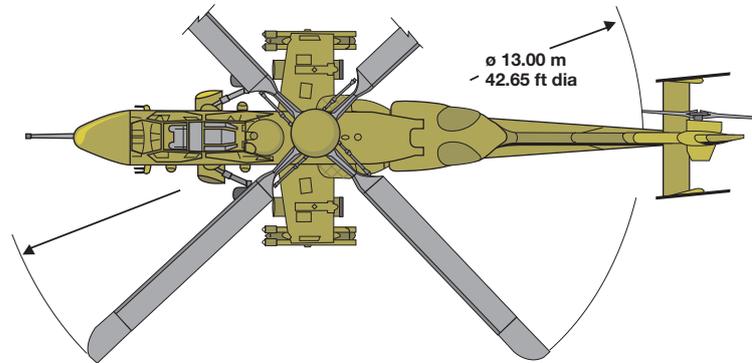
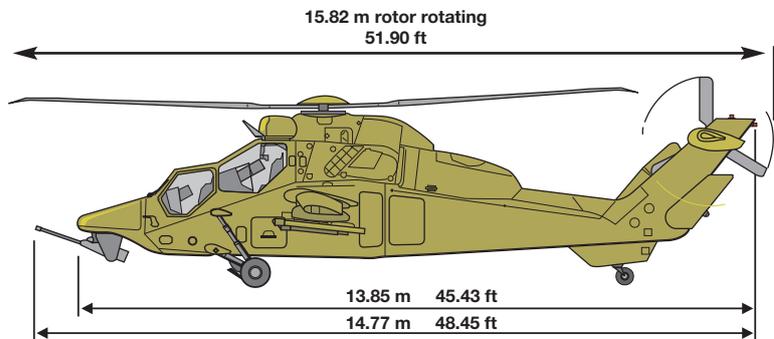
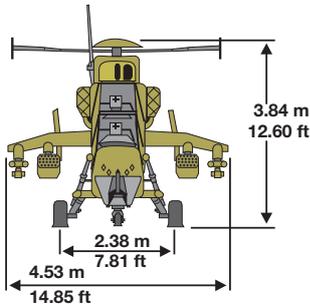
- Operational technical availability > 90%.
 - High and hot performance.
- Combat proven since July 2009
(Afghanistan, Libya and Mali).**

**COMBAT
PROVEN**



The Tiger is a key asset in the battlefield.

Main assets



Low Detectability

- Flat and narrow silhouette,
- Low radar IR signature,
- Passive weapon system, capable to operate with nil laser / EM (except when firing).

Low Vulnerability

- Systems redundancies and segregation,
- Agility (Rigid rotor),
- Self-sealing tanks.

High Survivability

- Additional Ballistic Protection,
- Chaff & Flares dispenser,
- High crashworthiness.

Passive Electronic Warfare System

High Maneuverability and Agility

- Highly responsive Bearing Main Rotor Head.

Optimal Visibility

- Tandem cockpit, pilot in front and gunner in upper position.

Firing Domain

- Equal to flight domain, either in Air-to-Ground or in Air-to-Air combat.

Range for self deployment

Easy to Maintain

- Operable without heavy infrastructure,
- Low Manpower,
- Optimum Availability.

TYPICAL CHARACTERISTICS

Maxi Take-Off Weight (MTOW) - ISA, SL	6,600 kg	14,553 lb
Engine 2 x MTR 390 - Step 1-5	1,092 kW	1,464 shp
Super contingency power (OEI)	1,322 kW	1,774 shp
Standard fuel capacity	1,105 kg	2,435 lb
Standard fuel capacity + external fuel tanks	1,689 kg	3,723 lb

PERFORMANCES

Fast cruise speed at MTOW SL	271 km/h	146 kts
Mission duration (standard)	2 h 30 min	
Maximum endurance with external fuel tank	5 h 00 min	
Max range "armed" with standard fuel tanks	400 NM	740 km
Max range "not armed" with external fuel tanks	610 NM	1,130 km

FLIGHT ENVELOPE

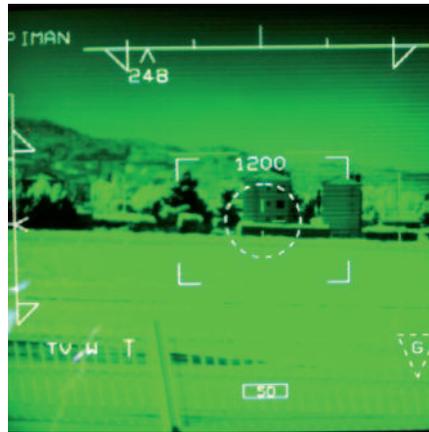
Operating temperature	- 30°C to ISA + 35°C	
Service ceiling	-500 m to 4000 m	-1,640 ft to 13,123 ft



Mission System

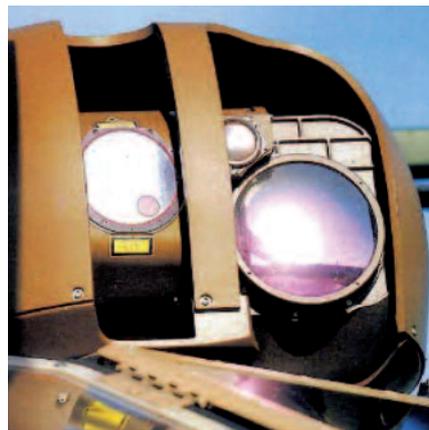
Gyro stabilized Roof Mounted Sight (RMS)

- TV camera (3 FoV),
- Thermal imager (3 FoV + electronic Zoom),
- Laser range finder,
- Laser designator,
- Laser spot tracker, up to 4 targets automatic tracker.
- Steered in azimuth (+/- 120°) and elevation (+40°/-25°).



Helmet-Mounted Sight/Displays (HMSD)

- Pilot's and Gunner's
- Piloting and firing symbology.
- Slaving function, either with RMS or with 30 mm turret-mounted gun.



IFF Transponder / Interrogator

HF/Datalink

Digital Map Generator

- System EUROGRID
- Map display
- Battlefield management system



Pilot cockpit with PFD and tactical display in elevation mode

Armament



30 mm turret-mounted gun

(Nexter 30M781).

- The most accurate and lethal on the market.
- Combined with the RMS and slaved by two HMSD-P+G Optimized through a performant firing control system (algorithms of target trajectory prediction).
- Reducing collateral damages and fratricide firing risks.
- Total Ammunition capacity:
 - 450 rounds,
 - Rate of fire: 750 rounds per minute,
 - Bursts: 5 / 10 / 25 bullets,
 - Azimuth: +/- 90°,
 - Elevation: +28° / -25°.
- Optimized firing domain:
 - ATG: up to 1,500 m,
 - ATA: up to 1,000 m.



Rockets

- Versatile 68 mm or 70 mm unguided rocket system (change of rocket type without change of any fixed part on helicopter).
- 68 mm (up to 68 rockets):
 - 2 inner launchers of 22 rockets,
 - 2 outer launchers of 12 rockets.
- 70 mm (up to 52 rockets):
 - 2 inner launchers of 19 rockets,
 - 2 outer launchers of 7 rockets.
- Firing Control for:
 - rocket inner pods elevation,
 - sub-ammunition ejection delays,
 - rocket types.
- Growth potential for laser guided rockets.



Missiles

• Air-to-Air Mistral Missile

- Off boresight capability,
- Multicell seeker,
- 2 x 2 missiles (outer launchers),
- Range = up to 6000 m.

• Air-to-Ground missiles

Hellfire (laser guided):

- 2 M299 launchers x 4 missiles,
- Range = 8000 m,
- Self designation or Collaborative designation,
- Locked Before Launch (LOBL) or Locked After Launch (LOAL).

Spike ER

- 2 x 4 missiles,
- Range = 8000 m,
- (Fire-and-follow) with electro-optical or fiber optics technologies.

Typical Configurations

Attack

4 Air-to-Air Mistral
+
8 Hellfire or Spike
+
30mm turreted gun



Ground Fire Support

68 rockets 68mm
or 52 rockets 70mm
+
30mm turreted gun



Escort

2 Air-to-Air Mistral
+
4 Hellfire or Spike
+
34 rockets 68mm or 26 rockets 70mm
+
30mm turreted gun



Armed Reconnaissance

4 Air-to-Air Mistral
+
44 rockets 68mm
or 38 rockets 70mm
+
30mm turreted gun

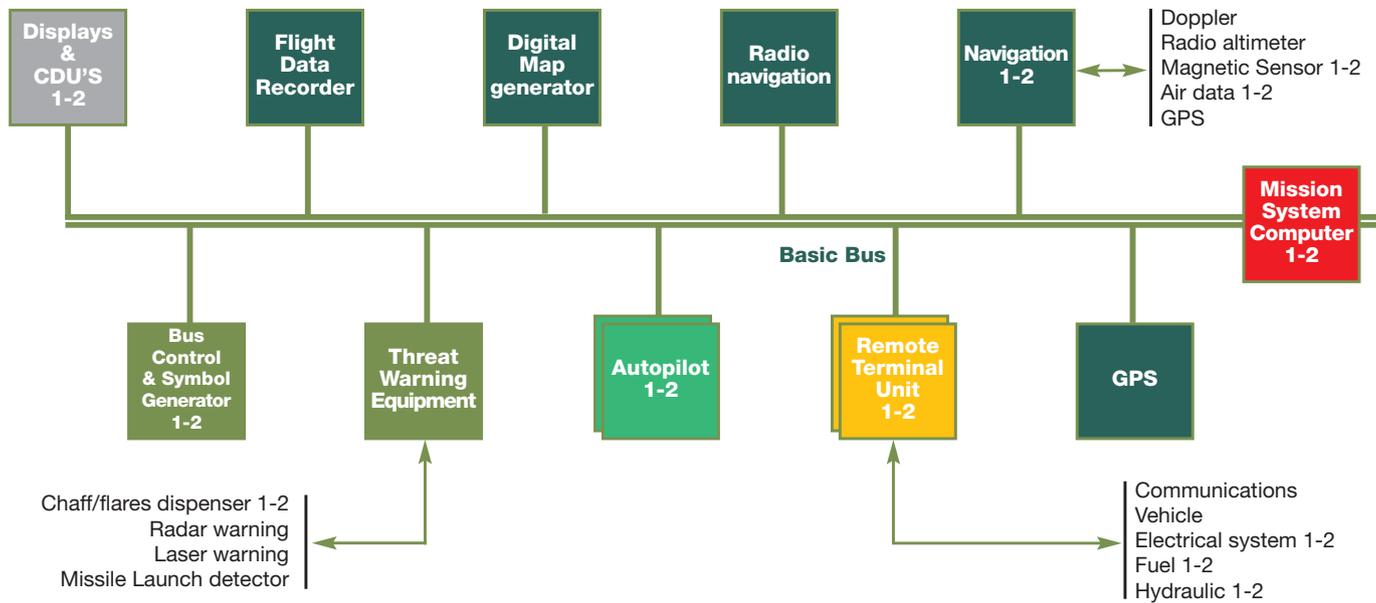


Air-to-Air combat

4 Air-to-Air Mistral
+
30mm turreted gun



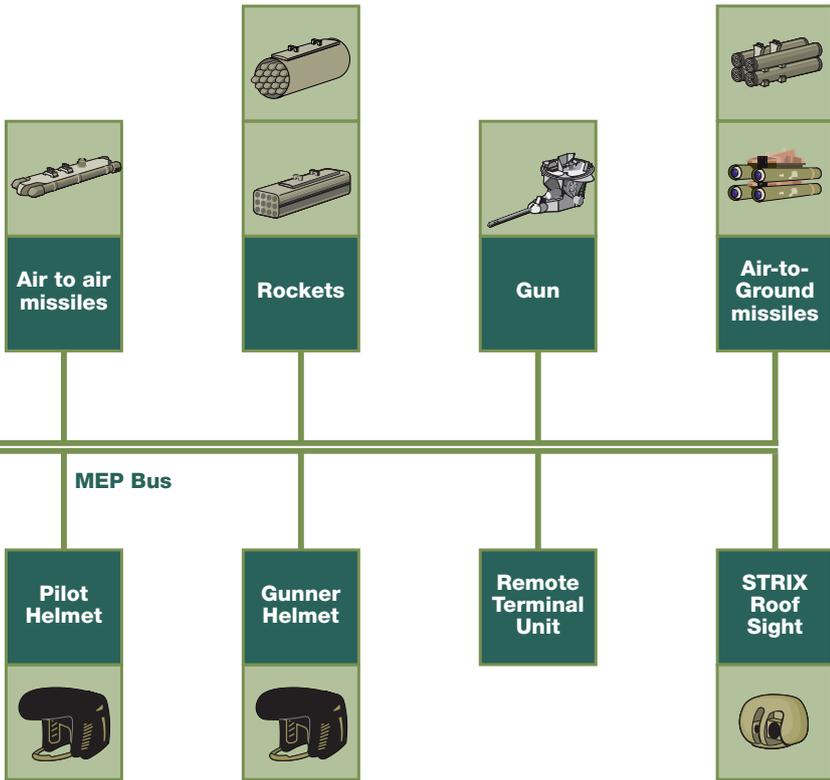
General design architecture



Electronic Warning System - EWS

- 4 radar warning receivers,
- 2 laser warning receivers,
- 4 missile launch detectors,
- 2 chaff & flare dispensers.





Easy maintenance

Easily deployable



Anytime Anywhere





Contacts

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