

# ATR 72MP

Effective and affordable force multiplier



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The ATR 72MP, developed and built by Leonardo Aircraft, is a derivative of the best-selling ATR 72-600 commercial platform designed to perform a wide range of missions, including all **Maritime Patrol** tasks with excellent reconnaissance and C4ISR (Command, Control, Communication, Computers, Intelligence, Surveillance and Reconnaissance) capabilities. The aircraft can also carry out Exclusive Economic Zone (EEZ) patrol, **Search And Rescue** (SAR), it can act as a flying command post and can double as a comfortable passenger transport asset.

The Italian Air Force is the launch customer for the ATR 72MP, which combines the comfort, reliability, maintainability and low life-cycle cost of its commercial counterpart with a state-of-the-art mission system, advanced sensors and a complete communication suite, to create an effective and affordable force multiplier.

The core of the ATR 72MP mission suite is its modular Airborne Tactical Observation and Surveillance (**ATOS**) mission system. Designed by Leonardo Electronics, the ATOS manages the aircraft wide array of sensors, combines the information received in an overall tactical situation performing a real Data Fusion and presents the results to the mission system operators in the most suitable format, providing excellent situational awareness.

The main sensor installed on the ATR 72MP is a **multimode radar**, for example the Leonardo Electronics Seaspray 7300E Active Electronically Scanned Array (AESA), able to perform long range detection, tracking and identification of surface targets on 360°. It also incorporates Track While Scan (TWS) and Moving Target Indicator (MTI) capabilities, air-to-air and weather modes,

SAR (Synthetic Aperture Radar) and ISAR (Inverse Synthetic Aperture Radar) imaging modes. Different multimode search radars are also available for peculiar customer needs.

Additional sensors include an electro-optical turret equipped with video cameras and infra-red imagers, an **Automatic Identification System** (AIS) to locate and identify targets equipped with AIS transponders, an Airborne Search And Rescue System Direction Finder (ASARS DF), to locate the direction of radio emitters and emergency beacons during SAR missions. Two side large bubble windows allow to perform visual search.

The ATR 72MP **avionic suite** adds to the state-of-the-art ATR 72-600 glass cockpit a cockpit tactical display providing the pilots with mission system data and can be further integrated with high precision INS/GPS systems and an IFF Transponder.

The ATR 72MP **communication suite** includes three V/UHF radios and one HF radio, managed through an advanced internal communication system. A wide band SATCOM system allows easy mission data exchanges with cooperating assets and ground control centers.

Thanks to the platform growth capabilities and the mission system modular design, the ATR 72MP can be optionally provided with additional sensors, systems and communication equipment, such as an Electronic Support Measure (ESM) system, to further expand its mission portfolio, including for example **Electronic INTelligence** (ELINT) tasks.

A complete Defensive Aids Sub System (DASS) is available as an option to allow the aircraft to operate also in hostile areas.



## CHARACTERISTICS

### WEIGHTS

Maximum Take Off Weight	50,706 lb	23,000 kg
Maximum Landing Weight	49,273 lb	22,350 kg
Maximum Zero Fuel Weight	46,297 lb	21,000 kg
Maximum Fuel Capacity	11,023 lb	5,000 kg

### POWERPLANT

PW127M Engine Max	2,750 shp	2,050 kW
Take-off Power (1 engine out)		

### PERFORMANCE

Maximum Cruise Speed	250 KTAS	465 Km/h
Maximum Operational Altitude	25,000 ft	7,620 m
Max Endurance (at 5,000 ft)	10.00 h (+45' hold)	
Take-off Distance (MTOW, SL, AEO, ISA)	4,482 ft	1,366 m
Landing Distance (MLW, SL, ISA)	2,100 ft	640 m