

# QUALITY SATCOM VOICE

Assan Aviation Industry / Turkish Air Force



## BACKGROUND & REQUIREMENT

In May 2000, twenty AS532 Cougar helicopters were delivered to the Turkish Air Force (TuRAF) for search and rescue (SAR) and combat search and rescue (CSAR) roles. Since then, these workhorses have been used by an elite unit to conduct routine search and rescue operations, and to recover personnel stranded behind enemy lines.

The remote nature of the operations, and the requirement to stay in touch, meant that by the end of 2016 there was a need for reliable beyond line-of-sight communications.



AS 532 SAR/CSAR Cougar

## SOLUTION

TuRAF called on Assan Aviation Industry to get the job done. They had already completed several projects together and Assan was a trusted supplier. Based in Ankara, Assan is a supplier of lifecycle solutions and long-term technical support for the defence and airline industries. Assan offered TuRAF a turnkey solution that involved engineering, installation and integration.

Assan Aviation Industry chose the Flightcell DZMx for SATCOM and Axnes for a wireless intercom solution that was scheduled to take place at the same time. The Flightcell DZMx provided the small size and quality they needed, along with low CAPEX and OPEX.



“ *The capability of the DZMx and the size and price, makes it one of the very best...* ”

## INSTALLATION

The DZMx was configured for both satellite and cellular transmission and GPS tracking. Optional Iridium Push-To-Talk (PTT) capability was also fitted for use at a later date. It will be used for secure group voice communications.



Remote Head in the cabin

A secondary DZMx Remote Head unit was installed in the cabin. This allows crew members to quickly and easily make and receive calls from the cabin.

The satellite antenna was mounted on the nose of the aircraft and the cellular antenna was mounted underneath the airframe.



*"The capability of the DZMx and the size and price, makes it one of the very best equipment choices. Its quality and installation is very easy. There are no ongoing maintenance or repair charges and operating costs are very low."*

### ALEV ADAMEY

General Manager  
Assan Aviation Industry



DZMx cockpit installation

## RESULT

General flight tests were performed as soon as the first prototype installation was completed. “The crew made calls and sent SMS messages from several locations including remote mountains and valleys. They were very satisfied with both the DZMx and the Iridium service. They were very impressed with the DZMx voice quality in particular”, said Alev Adamey, General Manager, Assan Aviation Industry.

Assan have several new projects underway for the Air Force and for other Government organisations. The DZMx is the frontrunner to provide the SATCOM for these projects.



The people that made it happen



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