

ATC in a Box



Dual use landing system (TLS) with ATC surveillance capabilities

POSICAO : ASS07 OPER : ACCCW
 MAPA : MSIN EXT PIS: 2 min
 ROTACAO : -017°00'00"
 DILAT : 1024.0 NUV SINTET:
 RADAR : SINT
 VIS : SM1 LNJ MRC
 FIL : LN1 LN2 LN3 LN4

L	ARG1257	S02	PAJAM							
W	SBGL	A3610	2250							
H	SAEZ	N0434	360	360						
K	UA314	UA314	EET/SBCW0023	SUE00205	SAEF02	S03				
	LVBAT									

Shift+ COBERT PAGINF PAUSA INTERAT
 Ctrl + ++ + - - - CENTRO ETQ QLOOK PLNSAT PLNCRI PLNSET



A mobile stand alone solution for ATC

The demand for small ATC (Air Traffic Control) and controlled approach systems, for temporary, backup, mobile or transportable systems in civil or military applications is now fulfilled with AmazonTech's ATC in a Box system.

Taking advantage of the current hardware processing power at low cost, and software technology architecture, we created a flexible and cost-effective full ATC solution.

The ATC in a Box is comprised by a fixed antenna secondary surveillance system developed by ANPC and Atech's ASMACS (Air Space Management and Control System), which is successfully deployed throughout Latin America and the Caribbean.

The ATC in a Box is a fast installation, low maintenance complete ATC solution packaged to reduce investments and guarantee air navigation safety.

In partnership with:



Benefits

- Larger ATC online backup
- Temporary or transportable ATC and controlled approach for civil emergency relief
- Civil ATC stand-alone for small or restricted areas
- Mobile or transportable military airfield control
- Temporary ATC replacement
- Dual use of landing and surveillance systems (expand the capabilities of a current infrastructure with a low cost investment)

System

The “ATC in a BOX” is comprised of three main components:

- A Secondary Surveillance System, with the characteristic of being easily installable and transportable
- The Simple Sensor Backup System, an innovative product with a robust sensor receiver capable of receiving conventional radar sensors (plots, tracks and weather information), as well as non-radar sensors such as ADS-B and Multilateration
- The Simple Intelligent ATC Display is an innovative product capable of receiving Asterix track and weather messages, flight plan messages (coordination and supervision), controllers inputs, AIS and weather products, as well as sending flight plan messages to other displays or centers. The ATC Display is capable of presenting tracks, labels, weather products, markers, flight plan information, electronic strips, and all relevant ATC data

Features

- Small hardware footprint
- Handles 16 sensors;
- Low cost COTS hardware and software licenses.;
- Out of the box Multiple radar/sensor data formats, including Asterix, CD2, Multilat CAT010 and CAT 020
- Weather data CAT08
- Optional Weather Radar Information (CAPPI, IRIS, GRIB1, GRIB2, MDV formats)
- Optional connection to a AMHS and/or AFTN/FDPS line to vest tracks with their respective callsigns
- Web-based/easy-to-use configuration/adaptation and supervision
- Smart sensor correlation and fusion
- Capable of eliminating and be immune to bad data sent by defective sensors
- Optional passive (input-only) connection to the main FDP
- Capable of sending system tracks using the standard Asterix Cat 062 message
- TCP/IP connection
- Turn-on and display behavior, with all basic SDD functions, such as zooming and selecting a track
- Eurocontrol ATC Display functionalities
- Stand Alone display and ATC system
- Scalability: able to connect several ATC displays, one for each ATC sector
- Minimum Flight Plan features, such as ICAO coordination and supervision messages, OLDI/AIDC interfaces, handoff procedures, sectorization and AFTN or AMHS messaging
- Playback and recording tools
- Remote technical assistance and internet based software updates

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