

# INTELCAN

## SKYSURV ADS-B

Intelcan's ADS-B system offers customers accurate and reliable air traffic surveillance.

Intelcan's SKYSURV ADS-B Ground Station system is primarily a receiver that listens on the 1090 MHz frequency for Mode S Extended Squitter messages broadcast by the targets. It collects and decodes these periodic messages containing position, altitude, velocity, callsign, and so on. Upon message decoding, the system detects and, when possible, corrects reception errors. It then sends the processed data in ASTERIX format, via a ground/wireless network, to Air Traffic Management applications.

### Models:

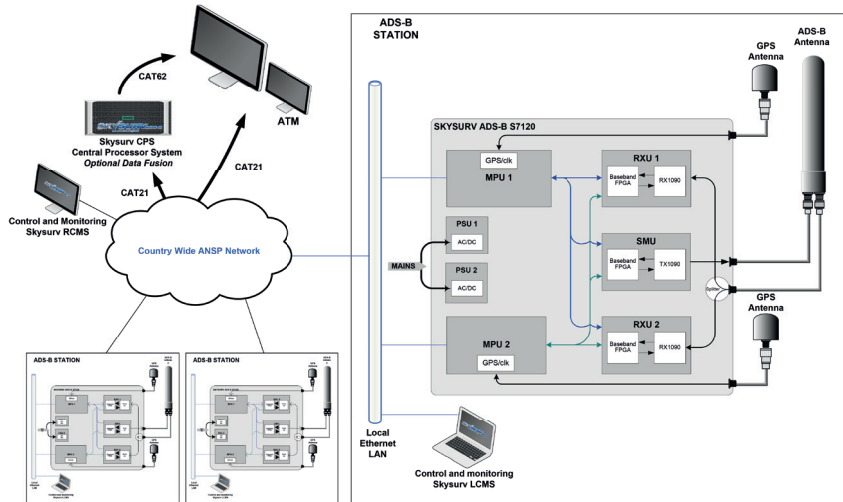
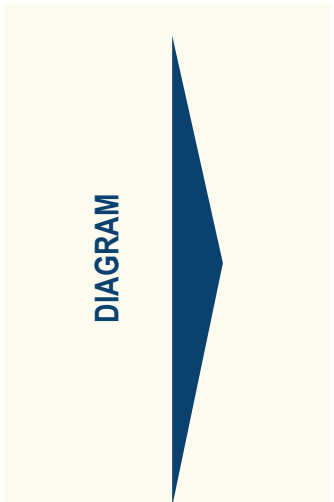
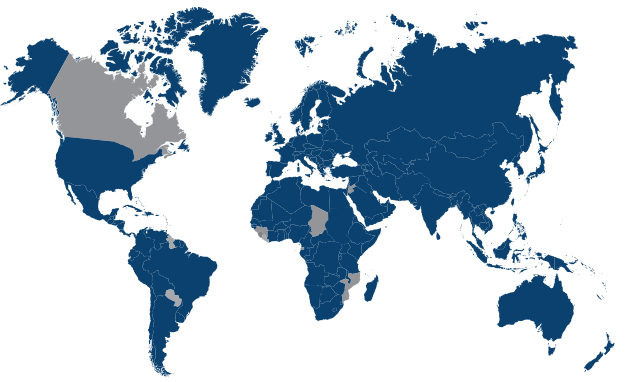
- Skysurv S7110: Single configuration
- Skysurv S7120: Dual configuration one 1090 Antenna
- Skysurv S7121: Dual configuration dual 1090 Antenna



SKYSURV ADS-B	FEATURES
KEY FEATURES	<ul style="list-style-type: none"> <li>• Cost-effective supplement, alternative and/or backup to traditional radar surveillance</li> <li>• Modular 4U rack mountable receiver with robust mechanical design and fanless processors</li> <li>• Designed with hot-swap capability</li> <li>• Embedded Site Monitor (LRU) with full BITE and status reporting</li> <li>• Low power usage</li> <li>• Fully redundant architecture: same box can be dual or single</li> <li>• Cross redundancy</li> <li>• Dual or single antenna configuration</li> <li>• Integrated high precision GPS time source</li> </ul>
SKYSURV ADS-B GROUND STATION [ANTENNA & RECEIVER]	<ul style="list-style-type: none"> <li>• Listens on the 1090 MHz frequency for Mode S Extended Squitter messages broadcasted by the targets</li> <li>• Creates and transmits target tracks and generates ASTERIX 21 reports based on the processed data</li> <li>• Processes up to 4000 messages per second</li> </ul>
CENTRAL PROCESSOR SYSTEM (CPS) [OPTIONAL]	Connected to multiple Ground Stations, the central processor fuses the multiple data feeds into a single feed to be transmitted to the Air Traffic Management system
CONTROL & MONITORING SYSTEM	<ul style="list-style-type: none"> <li>• Station Manager : a Maintenance and Monitoring application for control and monitoring of a single ground station</li> <li>• CMS: a Maintenance and Monitoring application for the monitoring of multiple ground stations</li> <li>• Technical Situation Display: provides CWP display and viewing of live ADS-B targets intended for diagnostic and testing of the ADS-B reception and processing performance</li> </ul>

# COUNTRIES

SOUTH AMERICA	<ul style="list-style-type: none"> <li>Paraguay</li> <li>Guyana</li> </ul>
NORTH AMERICA	Canada
AFRICA	<ul style="list-style-type: none"> <li>Guinea Ecuatorial</li> <li>Mozambique</li> <li>Liberia</li> <li>Sierra Leona</li> <li>Guinea Conakry</li> <li>Tchad</li> </ul>
MIDDLE EAST	Jordan



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