CUSTOMER SUCCESS

Advance-Tech
THE TECHNOLOGY GROUP

Hindustan aeronautics limited (hal) ,Nasik

COMPNAY PROFILE

Aircraft Division, Nasik, established in the year 1964 for license manufacture of MiG-21FL aircraft & K-13 Missiles, is located at Ojhar, 24 kilometers from Nasik and approximately 200 kilometers from Mumbai in the state of Maharashtra. The division since then manufactured other MiG variants; viz MiG-21M, MiG-21 BIS AND MiG-27 M aircraft. Along with manufacturing, the division also carries out overhaul of the MiG series aircraft.

Project Summary

Hal Aircraft division, Nasik has a very good record in designing and development of Russian aircrafts. One of the aircraft is su-30mki.

Hal has Russian lru, which need to be tested and certified. Hal wants to test the su-30mki aircraft lru on field. And to rebuild the Russian design and implement in the indan aircrafts for production.

Understanding the Russian lru and interfacing with aircraft is a big challenge for hal .they were not knowing how the data formats are coming ,so they have come up with issue addressing to us and we solved and exceuted successfully .

Advance Tech has integrated the usb based arinc 429 card with Russian LRU . By making use of Co-pilot software we are good picture to addreress the data what exacting is coming from LRU. No other competitor cards are ready to acquire the data in customized speed. Ballard has this Feature and exceuted the operation and made us the grand success.

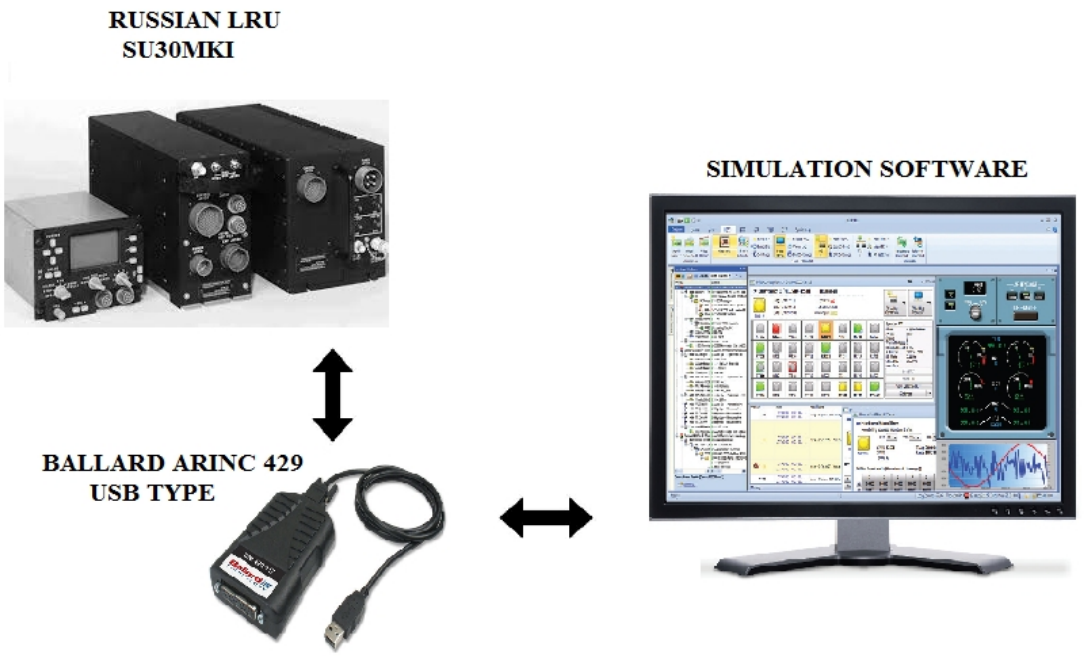
CUSTOMER CHALLENGE

Customer challenge was to understand the Russian LRU and study the data packets how it is flowing. They were hanged up in this issue. They have tested with different vendor cards like ddc, aim, ex-caliber, ait so on... But result was not appreciated. Due to this they have hold of testing the Russian lru which made them management to take tough decision on this issue.

The remedy

Ballard gave us the solution to Pitch up at the right time in this project. Ballard usb based arinc 429 card has a good feature which can be programmable at customer speeds. Our standard data speed of arinc 429 is 100 kHz (high) and 12.5 kHz (low), but Ballard has programmable speeds with in this range. We have programmed 48khz for Russian lru and we are able to access the data which is coming out from lru . the acquired data can be easily read and identified by using co-pilot software .

SYSTEM OVERVIEW



PRODUCT FEATURE

BALLARD USB CARD DETAILS:

- Numeric and file transfer protocols
- Standard and custom bit rates
- 12.5 and 100 kb/s standard
- Configurable per channel
- Wide range of custom bit rates
- Set parity per channel (odd/even/data)
- Sync output on all or selected messages
- Internal self-test bus

SIMULATION SOFTWARE:

- Co Pilot includes some of the most advanced and comprehensive data bus analysis and simulation tools available, yet it remains incredibly easy to use.
- Eliminates the need to write your own software–saving time and money
- Intuitive organization and navigation
- Auto discovery of hardware and bus activity
- Visual protocol analysis

Education & Research	Industrial & Manufacturing	Mil Aero & Defense	Banking & Business Processing

Conclusion

Advance – tech Control Pvt. Ltd Project team with avionics certified products from Ballard tested the various Russian aircrafts LRU like INGPS, HF, SLS, ADC, AHRS_RX and so on ....

Feature of SU30MKI Project

Finally the result was good and appriciteated by Customer, we are the only one vendor to test the Russian LRU without any errors and complications.

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