

CUSTOMER SUCCESS



VIKRAM SARABHAI SPACE CENTRE (VSSC), TRIVANDRUM

COMPANY PROFILE



VSSC IS THE LEAD CENTRE FOR DEVELOPMENT OF SATELLITE LAUNCH VEHICLES AND ASSOCIATED TECHNOLOGIES. THE CENTRE PURSUES ACTIVE RESEARCH AND DEVELOPMENT IN A HOST OF DISTINCT TECHNOLOGY DOMAINS LIKE AERONAUTICS, AVIONICS, COMPOSITES, ETC WITH A VIEW TO ACHIEVE SELF-RELIANCE IN THE HIGH TECH REALM OF LAUNCH VEHICLE TECHNOLOGY.

PROJECT SUMMARY

VSSC IS A MAJOR R&D CENTRE WITH CORE COMPETENCIES IN VARIED DISCIPLINES. THE CENTRE HAS WELL-DEFINED AND FOCUSED RESEARCH ACTIVITIES AND PURSUES RESEARCH AND DEVELOPMENT IN THE FIELDS OF AERONAUTICS, AVIONICS, COMPOSITES, COMPUTER AND INFORMATION TECHNOLOGY, CONTROL GUIDANCE AND SIMULATION.

ADVANCE TECH HAS INTEGRATED THE PCI BASED MIL 1553 CARD IN ATE AND ACCESSING THE CARD WITH THEIR APPLICATION FOR SIMULATION OF SIGNALS WHICH ARE RECEIVING FROM LAUNCH PADS. BY DOING SO CUSTOMER WAS FACING PROBLEM IN TIME STAMPING OF DATA.

OPERATING SYSTEM USED IS LINUX.

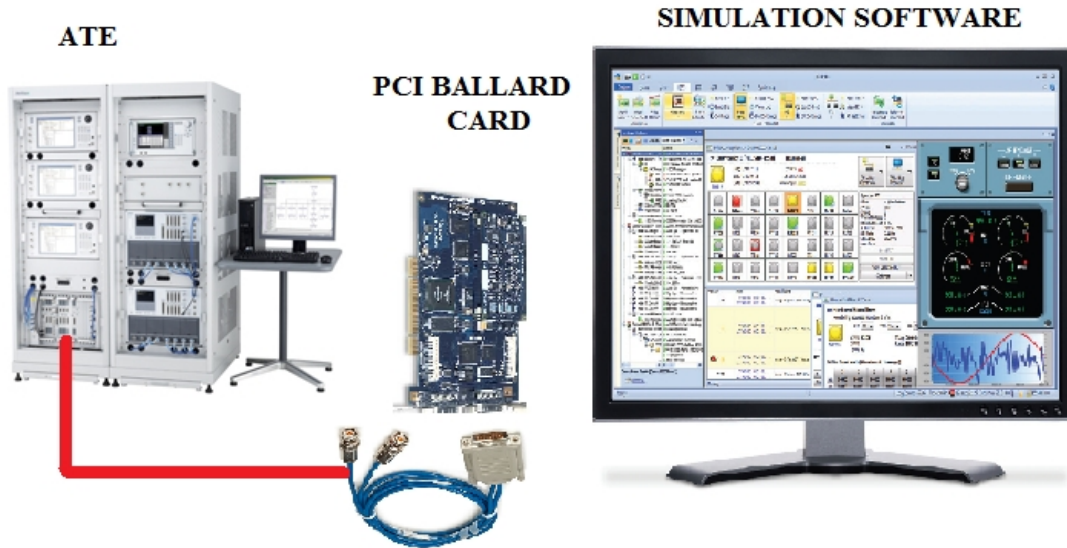
CUSTOMER CHALLENGE

CUSTOMER WAS USING THE OTHER VENDOR CARDS OF MIL 1553 CARD. THEY WERE FACING THE DRAGON ISSUE ON THE TIME STAMPING OF DATA IN MIL 1553 PROTOCOL, WHICH MADE THEM HUGE DATA LOSS IN THEIR APPLICATION. BY THIS ISSUE THEY HAVE TO HOLD THE PROJECT WHICH WAS VERY CRITICAL AND INDIGESTIBLE TO FACE THE CONSEQUENCES.

THE REMEDY

BALLARD GAVE US THE SOLUTION TO PITCH UP FOR THIS ISSUE. BALLARD PCI CARD WAS THE ONLY ONE SOLUTION TO SOLVE THE TIME STAMPING ISSUE WHEN COMPARED TO OTHER COMPETITORS CARDS. BY USING THIS CARD THEY WERE NOT ABLE TO LOSS THE DATA

SYSTEM OVERVIEW



PRODUCT FEATURE

BALLARD PCI CARD DETAILS:

OMNIBUS MODULES: 1 OR 2
 MEMORY: 16MB SDRAM
 DIO: 2 INPUTS, 2 OUTPUTS PLUS
 3 INPUTS, 3 OUTPUTS PER MODULE
 IRIG A/B INPUT AND OUTPUT.
 UNIVERSAL CARD (5V OR 3.3V SIGNALING)
 32-BIT; 33 MHZ/66 MHZ
 PLUG AND PLAY

SIMULATION SOFTWARE:

APPLICATION PROGRAM INTERFACE (API) TO QUICKLY DEVELOP CUSTOM APPLICATIONS. OMNIBUS PRODUCTS CAN BE EASILY CONFIGURED AND OPERATED WITH ONLY A FEW API CALLS. THE COMPREHENSIVE LIBRARY ALSO INCLUDES A BROAD RANGE OF FUNCTIONS FOR SPECIALIZED NEEDS. DRIVER SOFTWARE USED IS LINUX.

CONCLUSION

ADVANCE – TECH CONTROL PVT. LTD PROJECT TEAM WITH AVIONICS CERTIFIED PRODUCTS FROM BALLARD PRINCIPLE FOR DEVELOPING AND INTEGRATING WITH ATE SIMULATION PROJECT.

FEATURE OF SIMULATION PROJECT

FINALLY THE RESULT WAS GOOD AND APPRICITEATED BY CUSTOMER, WE HAVE REPEATED ORDERS COMING WITHOUT ANY COMPETITIONS.

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