

Case Study - Military Flight Training & Simulation

CONNECT AND PROTECT

Aerospace & Defense



REQUIREMENT

A European-based customer that provides defense training and simulation programs came to nVent SCHROFF for a custom project working with a large simulation program that needed advanced processing power to drive the simulated environment used for flight training in a military application.



CHALLENGE

The customer asked us to provide a solution using a commercial off the shelf (COTS) 19" rack to house multiple high-performance image generating computers with the ability to outsource the integration of the rack for mass production. They also needed to be able to outsource the rack integration for mass production and for us to be able to meet local regulations for compliance and safety testing. Finally, the customer needed to be able to obtain a finalized engineering drawings and documentation pack along with rack serviceability, and high-end computer processing with appropriate thermal management to ensure stability.



OUR SOLUTION

We used our 19" COTS enclosure and Varistar cabinet to:

- Reduce the cost of changes when adding new equipment while meeting their scalability, compliance, and thermal requirements of the program
- Provide the level of protection and performance needed to house a complete and fully integrated flight simulator

Project Details

Location	Europe
Type of system	19" COTS rack system
Technology	COTS systems and thermal dispersion technology
Product scope	Varistar cabinet, 19" COTS rack
Date / Time frame	2020