

CIREXX PROVIDES QUICK TURN TECHNOLOGY SOLUTION FOR THE WARFIGHTER**CLIENT / INDUSTRY****LARGE DEFENSE
CONTRACTOR****PROJECT SIZE****1 Part Number
\$150,000 Project****THE CLIENT**

A division of a major American defense contractor, specializing in communications and situational awareness equipment for in-theater battlefield conditions. This entity is well known for its extensive research and development resulting in advanced technology that continues to give the American warfighter the edge they need in foreign settings.

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INTRODUCTION

The customer had developed new and exciting technology that they needed to get quickly to the battlefield for final stage testing and validation. The warfighter was asking for – demanding - the technology and the customer had prototyped it, but needed working “filed ready” units to deploy quickly.

NEEDS ASSESSMENT

While the customer had a firm grasp of the technology needed to complete the production units, the Main Printed Circuit Board was not finished because it required state-of-the-art construction and processing. The customer needed assistance with the completion of the design and then an LRIP quantity fabricated, all very quickly. And of course, all of this had to be done in accordance with the appropriate MIL Standards, AS-9100 and under the ITAR umbrella.

Customer engages Cirexx with critical, quick turn need for board design assistance and fabrication

Cirexx begins to work closely with the customer's engineer to understand the parameters and performance requirements of the application

Cirexx identifies the needed materials and construction and process and methods to fabricate the needed technology

Cirexx provided the customer with the necessary information to document the final design and create a working data package

Cirexx fabricates the highly complex printed circuit board design in a QUICK TURN mode

SOLUTIONS

Cirexx engineers assisted the customer in the completion of the PCB design by providing workable Stack Ups, process/methods development and the appropriate drawing notes and callouts to document it all. The resulting board was a 10 layer construction with an L2 – L9 sub-lam, subsequently blind vias through the sub-lam and microvias from L2 – L3 and L8 – L9. And then the outer layers were formed using "Foil Construction" and microvias employed again to get from the outer layer to the first internal layer. Cirexx completed all of this in a matter of days – extremely QUICK TURN!

“The entire process - from initial engagement to product in-hand took a matter of days!”

FINAL OUTCOME

Cirexx responded quickly to the customer's needs so they could get their state-of-the-art technology rapidly into the warfighters hands to assist them in their efforts and maintain the edge over the enemy.

The customer's design was a great success and is now going into full rate production for deployment wherever the American warfighter needs it.

HIGHLIGHTS

- Timely response to customer's inquiry
- Understood design and developed solutions
- Produced documentation information rapidly
- Fabricated product very quickly