acphotonics

Case Study:
TELECOM EQUIPMENT

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Introduction

Today's communication networks (Data, Telecomm, and CATV) are expanding at an ever-increasing rate due to the ever-growing bandwidth requirements of video, gaming, and other forms of data utilization. It is therefore critical that the networks that support the end customer is reliable, especially as they continually transitioning through upgrade cycles.

With the upcoming implementation of 5G and IoT (cell, auto, household appliance, data storage, video, and other networked products), communication backbones will become one of the most critical infrastructures in the world. The world cannot afford to have network outages—If there is a product failure in the network, it could impact millions of people. Through this dependency, network equipment manufacturers are constantly required to improve reliability, functionality, density, as well as bandwidth requirements to address the ever-changing infrastructure requirements.

ACP's optical products are made with quality in mind. We understand the need to keep networks up and functioning properly. We work with our customers, collaborating to design specifications that support their business needs.

AC Photonics in Action

ACP entered the communication segment in 1995; we started small but quickly created an industry best reputation as a supplier of highly reliable products. This has allowed us to support some of the largest companies in the communication industry. Over the years, we have built a large and strong supply base with dependable partners to help ensure customer responsiveness and maintain our level of reliability.

A recent customer engagement with one of the largest communication companies in the world is a great example of customization, reliability, and responsiveness. This major telecom equipment manufacturer had a last-minute request to help them support a new communication blade design. There was a need for Gain Flattening Filters (GFF) for the amplification portion of the design. The design had very strict requirements that a standard off-the-shelf component couldn't address. Our engineering teams collaborated on the design and modified our GFFs to accommodate their need in what became an industry first from a performance perspective. As we moved forward on the program, our 'Engineers-on-Demand' also noticed that by redesigning the module footprint the GFFs would fit into, it would create a weight and size reduction approaching 35%, which would lead to a 6-figure cost down for the client per year.

In addition to the engineering challenges was the client's delivery expectations. Typically, ACP has industry best lead times of 4-6 weeks, but this client needed their solutions with 3 weeks.

The outcome

Our custom GFF's and packaging solution beat the clients' qualification cycle expectation for the new design. We were able to support them in being a product to market quicker than they ever had and as a result it allowed them to be the first to market for a deployable 5G and IoT network infrastructure hubs, while giving them a significant cost down. Our extreme responsiveness and flexibility has helped to build a strong collaborative relationship with this customer and since deployment we have worked on numerous solutions for them as we become their go to resource for advanced photonic solutions.

Contact our team to have your challenge solved today:

Every acp solution is backed by 25 years of unapparelled success in providing photonic solutions for global OEMs coupled with our uncompromising pursuit of excellence.

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