

# Fiber Optics/Telecommunications Design Note #7



Innovative Fiber Optic instrumentation for the Telecommunications industry.

## The Challenge

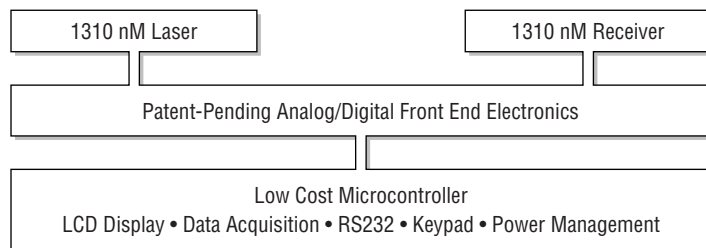
High cost, limited functionality, and aging components were severely limiting Wilcom's ability to maintain its leadership position as a supplier of low-cost instrumentation for the Fiber Optics telecommunications market. Working closely with Wilcom Engineering and marketing, Orchid developed a family of products based upon a single low cost microcontroller design.

## Feature Rich, Low Cost Solution

Leveraging LCD Display, Keyboard Scanning, Power Management, Serial Communications, and Data Acquisition techniques across the entire product line Orchid developed a single microcontroller platform which supports five product offerings.

## Patent Pending Solution

Orchid applied its creativity towards the design of unique patent-pending front-end laser light receivers. Precision analog design combine with insightful FPGA-based digital logic makes these instruments leaders in their class.



## A Family of Products

With two circuit board designs, Orchid developed Five Products. All five based on a common microcontroller architecture. This permitted Wilcom to leverage economies of scale into profitability.

Call Orchid today. We will work with your engineering and marketing people to determine your product needs. We can develop a family of products for you too.



**ORCHID TECHNOLOGIES  
ENGINEERING & CONSULTING INC.**

**Custom Engineering From Concept to Production**

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