



"Embedding thoughts into Technology"

Embin Technologies Private Limited
306, Sarita 2, Prabhat Industrial Estate,
Near Toll Naka, Dahisar East,
Mumbai - 400 068. India.
Tel : +91-22-28977128
+91-22-28977127
Fax : +91-22-28689486
Email : contact@embin.com
Website : www.embin.com

Laser Diode Driver device

Client:

US Based manufacturers of legendary Photonic Test and measurement instruments.

Requirement:

Re-design of the existing high performance product to meet the requirements of fast growing global client base. The existing design should be redesigned to implement easily available low cost newer (SMD) components keeping the original specifications intact. Provide USB2.0 connectivity, it should meet the RoHS and CE conformity. Labview and VC++ drivers should be provided so that the user can integrate the instruments with their own systems.

Solution:

The LDX35XX series was designed around high speed 8bit, 8051 core from Silicon Laboratories with inbuilt USB port. During redesign the old analog design was made to operate on low voltages while maintaining the previous specifications intact. The effort was to use of easily available newer RoHS SMT components. The Front Panel user interface was redeveloped to give best possible user interaction. The digital design was redesigned and optimized for ultra fast response to simulate a Real time operation. Labview8.0 and VC++ drivers are provided for USB 2.0 communication interface.

Tools/Platforms:

- » C8051F340 from Silicon Laboratories with inbuilt USB support
- » LabView V8.0
- » VC++ v6.0