



Multimedia Terminal

Overview

The customer is a leading R&D organization in India, focusing on multimedia solutions.

Business Need

The customer wanted to satisfy the following business needs:

- Develop a product targeting rural India
- Develop a low cost, feature rich telemedicine terminal, based on an embedded platform for video conferencing applications
- Deploy the terminal in multiple applications areas including healthcare, education and communication.
- The device should be operable with the Internet connectivity bandwidth available in rural India.

Challenges

The major challenges faced during product development are:

- Working with a relatively new and complex SoC platform namely DaVinci chip from TI in the industry, with limited support.
- System integration of an entire set of newly developed hardware and software components.
- Sourcing compatible plug-in devices and their supporting software.
- Selection of suitable open source components and tool chains that are compatible.

The Project

The objective of the project is to design and develop a low cost, feature rich telemedicine terminal, based on an embedded platform for video conferencing applications. The product is to be used as a remote multi-media communications platform for multiple applications areas including healthcare, education and communication. The NeST team, consisting of around 10 people spent 12 months working on this project. The project scope included development of hardware, firmware, system software, middleware and application software required for creating the multimedia terminal. The product was developed on MontaVista Linux 2.6.10 with the hardware based on TI's DaVinci platform with a rich set of peripheral support.



Benefits

The product designed for the client provided the following benefits:

- A cost effective remote multimedia terminal using embedded multimedia and video conferencing technology.
- Direct benefit to people in rural India as a telemedicine platform.

For further information, please contact:

NeST Software

A-3, Periyar, Technopark Campus, Trivandrum ,India

Ph:91-471-2527441

Visit us at www.nestsoftware.com

Email us at software.info@nestgroup.net