



WiMax BASE BAND BOARD DEVELOPMENT



THE CLIENT

The client is a market leader in wireless sector.



BUSINESS NEED

The client envisaged to design a base band card around PowerQuicc (MPC8555E) processor with Fujitsu WiMax 802.16 SOC (MB87M3400) and Broadcom GMII (BCM5482) for 1GB Ethernet interface.



TECHNOLOGY USED

- ⦿ **Hardware:** PIC18F2450, USART, USB, GPIO
- ⦿ **Firmware:** USB Printer class Enumeration, Rs232



SOLUTION DELIVERED

Hardware Solution:

- ⦿ Complete HW Design, Board Design, Prototype Development
- ⦿ Both RF and IF interfaces along with PCI interface
- ⦿ MPC8555E processor with 64Mbyte of Flash, 512Mbyte of DDR2 SDRAM
- ⦿ Varying processor speeds in the same design
- ⦿ 8 layer small form factor board with Mezzanine SOC card for FDI mode of operation

Software Solution:

- ⦿ Board support package to work under MonteVista Linux
- ⦿ Memory check for both SDRAM and Flash
- ⦿ Interface check for the SOC as a memory device
- ⦿ Interface check for the Ethernet port
- ⦿ Loop back verification test for the Ethernet port



BUSINESS BENEFITS

- ⦿ Customized memory and interface check options
- ⦿ Both Flash and SDRAM support

ABOUT ALTEN CALSOFT LABS

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