

Mobile VoIP Gateway

involving entire hardware design life cycle



OVERVIEW

IP telephony operators are in deep need of the use of the existing GSM network for delivering their services directly on cell phones. To make this possible there needs to be a VoIP to GSM gateway as a part of a complete mobile VoIP solution.

Wi-Fi IP phones are available and do give adequate quality, however their coverage area is very limited and network access is encrypted and subject to additional costs. This limits both Wi-Fi and WiMax in terms of convenience and coverage when compared to GSM and CDMA networks around world.

Solution:

Aftek has done the development to implementation hardware design of this product. The project involved hardware design, prototype build and test, manufacturing sign off with all relevant documents and special form factor phase. Subsequent to that Aftek did carry out CE certification tests and obtained CE marking for the solution.

Audio class, HID class, Storage class of USB has been used. Call Initiation and monitoring has been done via the HID class.

Benefits to Client:

Solution is intended for European market so it needs to have CE marking and should be RoHS compliant. Aftek achieved the CE marking. This had given client the advantage in selling the product in European market.

Solution was developed in a record time of nine weeks. This had given a time to market advantage to the client.

Features:

- **USB 2.0 support**
- GSM module supporting worldwide GSM operation via **Quad Band** 850/900/1800/1900 MHz or **triband**.
- SIM card holder on board
- Internal onboard **antenna support**
- This system makes use of Skype or customized VoIP applications on host side. GSM integrated unit acts as termination device with standard headphone support
- GSM integrated unit provides interface for termination device like the standard telephone instrument
- Power supply is done via **USB bus power**
- Use of **audio, storage** (1MB-considering only configuration storage) & **Human Interface Device (HID) class of USB**

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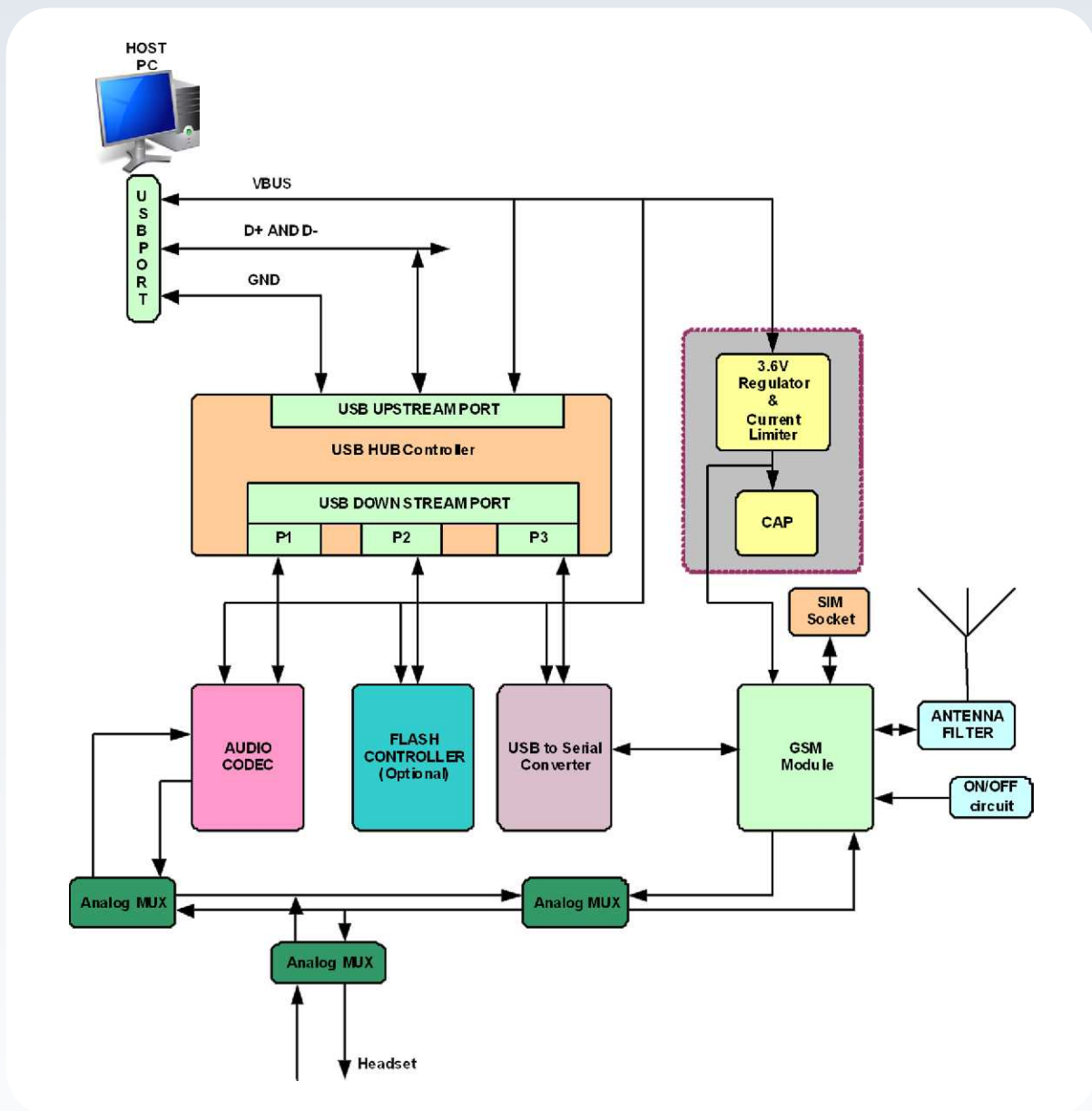
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Technologies:

⇒ GSM ⇒ USB ⇒ VoIP

Aftek Value Added:

Certification and RoHS compliance had given a leap for the product.



Aftek Limited

50/24 Pralhad Arcade, Bhakti Marg, Off. Law College Road, Erandwane, Pune, India - 411 004.
Tel. No.: +91 20 3024 0000 Fax. No.: +91 20 3024 0001 Email: productsinfo@aftek.com