ATC Labs *TeslaPro* Audio Codec

Description:

A high-quality audio codec supporting wide range of bit rates.

Applications:

- Internet audio delivery including download and streaming
- Digital Audio Broadcasting
- Music Store and Play

Main Specifications:

- **Audio Quality Levels:**

Bit Rate	Approximate Quality Levels	Audio Bandwidth	Stereo Level
80-96 kbps	Transparent CD quality at 96 kbps	18-20 kHz	> 80 dB
64-80 kbps	CD quality Stereo comparable (or better) than 128 kbps MP3	15 kHz	> 70 dB
40-48 kbps	CD-like	15 kHz	> 60 dB
28-40 kbps	FM Grade	15 kHz	Parametric Stereo
20 -24 kbps	High quality Mono	12-15 kHz	-
12 kbps	Mono	10-12 kHz	-

- **Decoder Complexity**: The *TeslaPro* decoder may be implemented on a variety of Fixed and Floating point platforms. The exact Peak MIPS complexity is a function of the target platform. Typically on a 16 bit fixed point DSP processor the peak complexity is expected to be between 60-80 MIPS. Additional resource requirements include 40-50 K of ROM and 25-35 K RAM (including error concealment buffers).

- **Encoder Complexity:** 25-35% of a 3.0 GHz Intel Pentium platform