**Features**

- **Hybrid noise cancelling**
  - Feedforward/Feedback independent multi-stage filter configuration
  - Integrated 6-band equalizer path for audio line
  - Low-latency signal processing

- **High-resolution support**
  - fs to 216kHz and 16bit to 24bit support
  - Integrated sampling-rate converter

- **Microphone input**
  - 2-channel stereo (analog and digital support)

- **Audio inputs**
  - Analog line input
  - I2S support (digital)

- **High-performance ADC: 6-channels, DAC: 2-channels**

- **BTL headphone output**

- **Support for filter adjustment using development tools**

**Block Diagram**

[Diagram showing the block diagram of CXD3782GF with connections for AIN1L, AIN1R, AIN2L, AIN2R, AIN3L, AIN3R, MICBIASx, Line, ADC1, ADC2, ADC3, Single Noise Cancelling, DAC, DEQ, VOL, LDO, I2C Control, ASRC, Audio I/F, HP, HPOUTL, and HPOUTR.]