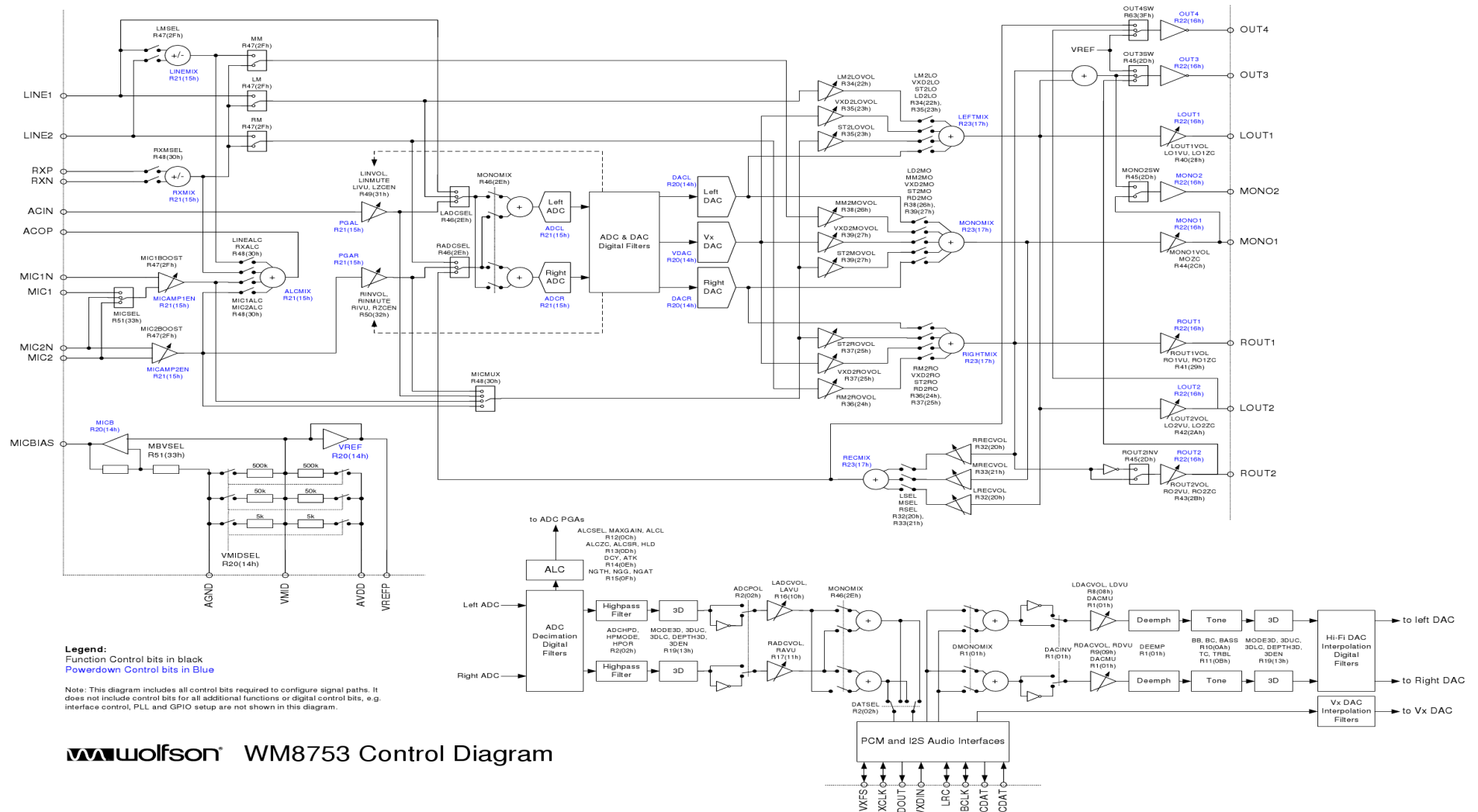


# Audio

- What do those state files mean
- Why are they so large
- How do they control audio paths
- How does this control codec power use

# Analogue Diagram



# What do those state files mean

```
control.1 {  
    comment.access 'read write'  
    comment.type INTEGER  
    comment.count 2  
    comment.range '0 - 255'  
    iface MIXER  
    name 'PCM Volume'  
    value.0 235  
    value.1 235  
}
```

# Why are they so large

- Codec driver is generic so there are controls which are not used in Neo1973
- One control for each device on the diagram
- Some extra controls for Amp and Mode on the Neo1973
- 94 Controls in total on GTA02

# How do they control audio paths

```
control.91 {
    comment.access 'read write'
    comment.type BOOLEAN
    comment.count 1
    iface MIXER
    name 'DAPM Handset Mic Switch'
    value false
}
control.92 {
    comment.access 'read write'
    comment.type BOOLEAN
    comment.count 1
    iface MIXER
    name 'DAPM Handset Spk Switch'
    value false
}
```

# How do they control audio paths

- DAPM system in driver automatically finds route between “ON” components.
- MUX/SWITCH components controls select paths.

# How does this control codec power use

- All not used components in Codec are powered down by DAPM when not in an active path.
- This is good for mobile devices like Neo1973
- We are ahead of Windows here as it DOES NOT have this fine controlled power system.