YM2610 (OPNB)

The YM2610 was made by Yamaha and is found inside the SNK Neo Geo aswell as several other Arcade Systems. It is also known as the OPNB.

Technical Specifications

- Channels: 15
- Channel 1.4: FM Sound synthesis with an LFO
- Channel 5-7: Squarewave synthesis
- Channel 8: Noise synthesis
- Channel 9-14: 4-bit ADPCM Waveform playback, 18.5 kHz, 16 MB Sample ROM Size. Samplesize: 256b – 1mb
- Channel 15: 4-bit ADPCM Waveform playback, 1.8 55.5 kHz, 16 MB Sample ROM Size. Samplesize: 256b – 1mb
- Stereo: Yes
- DAC: Internal The YM2610 was used in conjunction with a YM3016 stereo DAC.

One programmable Four concurrent FM channels (voices), Three SSG channels noise channel ADPCM-B four operators per channel ADPCM-A: Six ADPCM channels, 18.5kHz sampling rate (PSG:AY8910) Channel 8 Channel 9 Channel 10 Channel 11 Channel 12 Channel 13 Channel 14 Channel 15 Channel 2 | Channel 3 | Channel 4 | Channel 5 | Channel 1 Channel 6 Channel 7 -The Neo Geo uses an 18500 KHZ 4bit mono ADPCM format. -MVS Tracker can generate the Sound (Z80) M1 ROM. -MVS Tracker has an option to build the V* ROMS for this. BGM sample 0x80+ are FM music tracks. 0x04+ is Samples : Sfx (Sound FX) /BGMs: BackGround Musics. (CD Quality 44kHz Not supported yet by MVS Tracker. 0xFF Stops the FM Music. 0x7F stop ADPCM.

(Modplay supports samples in the range of 0x00-0x7F)

Tech Note o: MVS Tracker

Gfx: Fred / Frent 2010