

HiFi-Pi N3

Description

Digital stereo amplifier for Raspberry Pi microcomputers is based on two SSM3582 (supported by ChipStudio) ICs designed in mono mode (double mono). The amplifier integrates unique controller that allows to playback true Hi-Res premium quality audio from Raspberry Pi without resampling. No special Linux knowledge needed. Hi-Fi-Pi N3 is connected to 40-pin GPIO connector of Raspberry Pi1 Model B+, Raspberry Pi2, Raspberry Pi3 or Raspberry Pi4 without soldering and does not require auxiliary power supply.

Features

Module is completely assembled, programmed and ready to be used with any 40-pin Raspberry Pi microcomputer

Volumio / OSMC / Max2Play / RuneAudio / Moode / PiCorePlayer / PiMusicBox / OpenELEC / Roon Ready compliant

Slave mode

No additional drivers and “config” file changes needed

2×62.4 W output to 2Ω loads

Proprietary, filterless $\Sigma - \Delta$ modulation

PCM data format: I2S

Sampling frequencies: 44.1 kHz, 48 kHz, 88,2 kHz, 96 kHz, 176.4 kHz, 192 kHz

Resolution: 16, 24 or 32 bits for each sampling frequency

Automatic resolution / frequency selection in accordance to resolution / frequency of input audio stream

Possibility of downloading user projects created by means of SigmaStudio and ChipStudio

THD+N (5 W into 8Ω loads): 0,004%

Power supply voltage: 8 V to 16 V

Amplifier board dimensions: 56 x 65 mm

Control board dimensions: 40 x 85 mm

Programmed adjustments

Volume: 0 ... -70 dB

Balance: ± 10 dB

Mute: -70 dB, all channels

Mute state indication: LED blinks at frequency 4 Hz

Embedded limiter

Clipping state indication: left LED under volume control

Limiter activity indication: right LED under volume control

Recommended power supply: GST60A15-P1J