MK1
SPH0644LM4H-1

Typ. current: 1130µA

VDD 5

DATA 1
CLOCK 4

R1
51R

DATA
CLK

SELECT 2

GND 3

SELECT

GND

Alternative: SPH0641LU4H-1

VDD

VCC

FB1
600Z/0.3A

C1
180p

C2
100n

C3
1u

GND   GND

GND

Place as close as possible
to Mics pins.
Prioritize 180pF placement

VDD

R2
0R

SELECT

R3
0R

GND

SELECT = HIGH -> Asserts DATA on CLK rising edge
SELECT = LOW -> Asserts DATA on CLK falling edge

HIGH -> Right channel
LOW -> Left channel

VCC

1.8V - 3.3V

1
2
3
4
5
MP

J1
501951-0550

CLK

DATA

VCC

VCC

TPD1E0B04DPYR
TPD1E0B04DPYR
TPD1E0B04DPYR

D1
D2
D4

GND   GND   GND

GND

Use a 51R resistor in series on the CLK
line near the controller pins

VDD

PWR_FLAG

VCC

PWR_FLAG

PWR_FLAG

GND

antmicro

open source hardware