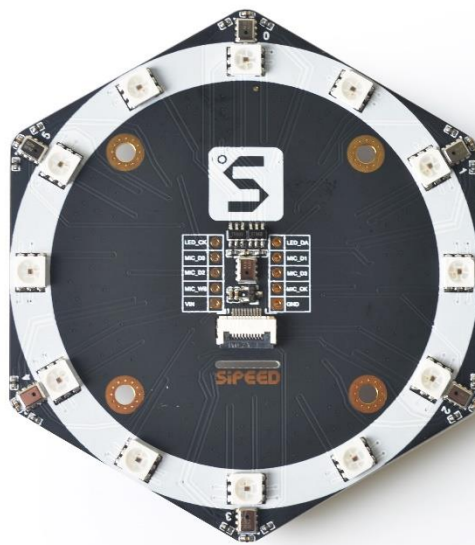# Sipeed R6+1 Microphone Array

Datasheet v1.0

Key Features：

- MEMS microphone: 6 MSM261S4030H0 form an array
- Sensitivity: -26(dB,dBFS @1kHz 1Pa)
- Signal to noise ratio: 57dB(20kHz bandwidth, A-weighted)
- Size: 78.1*88.8mm
- Light: 12 LEDs form a ring light array Synchronous of two-lane
        8 Bit(256level) color Set,5Bit (32 level) brightness adjustment
- Connector: 2*5P 2.54mm header and 10P 0.5mm FPC

UPDATE	
V1.0	2019/3/16 Published original document

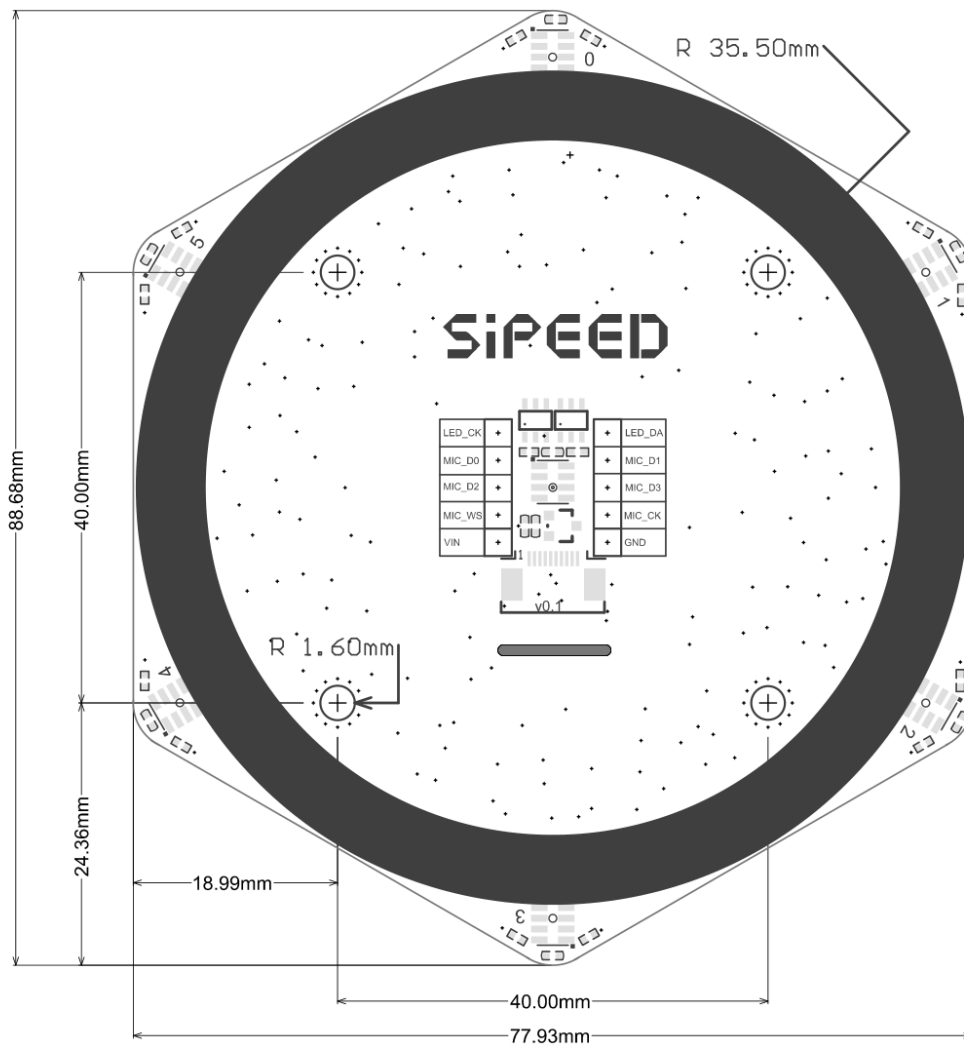| SPECIFICATION	
6 MEMS microphones : MSM261S4030H0	Sound Pressure Level : 140 dB SPL Sensitivity : -26(dB,dBFS @1kHz 1Pa) Signal to noise ratio : 57 dB (20kHz bandwidth,A-weighted) THD<1% (100dB SPL @1kHz S=Nom,Rload>2k) Clock frequency : 1.0-4.0Mhz(normal mode) 150-800khz(low power mode)
12 SK9822 LED	Viewing angle : 120 degree Synchronous of two-lane Choose postive output or negative output RGB tri-color LED out, 8 Bit(256level) color Set, 5Bit (32 level) brightness adjustment Current 20ma per color, 60mA total at full brigtness

HARDWARE FEATURES	
Supply voltage of external power supply	3.3V ±0.2V
Supply current of external power supply	>750mA(Full brightness)
Temperature rise	<30K
Range of working temperature	-30℃ ~ 85℃

SIZE	
Length	53.3mm
Width	25.4mm
Height	13.0mm

RESOURCES	
Official Website	www.sipeed.com
Github	https://github.com/Lichee-Pi
BBS	http://bbs.sipeed.com
Wiki	maixpy.sipeed.com
Sipeed Model Store	https://maixhub.com/
SDK Reference	dl.sipeed.com/MAIX/SDK
HDK Reference	dl.sipeed.com/MAIX/HDK
E-mail (Technical Support)	support@sipeed.com
Telegram Link	https://t.me/sipeed
QQ Group	878189804

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