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<https://www.msdmanuals.cn/home/children-s-health-issues/respiratory-disorders-in-infants-and-children/wheezing-in-infants-and-young-children>

** () **

<6
40 /min 60
70 /min
92%
>180 200

/min
X
PICU
PICU

40-44 /
1-3 24 / 4-7 22 / 8-14 20 /
30 /

60 /
50 / **1-5
30 /

- ()
-
-
- 10

12 20

- 0-1 30-60 /
- 1-12 30-60 /
- 1-2 24-40 /

- □□□□ **3-5**□□ 22-34□ /□□
- □□□□ **6-12**□□ 18-30□ /□□
- □□□ **13-18**□□ 12-16□ /□□
- □□ **18**□□□□□ 12-20□ /□□

????????? 2nV/? Hz??? 120dB
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<https://www.analog.com/en/resources/app-notes/an-159.html>

[an-159.pdf](#)

[AN159_Layout_Files.zip](#)

<https://www.analog.com/cn/resources/app-notes/an-940.html>

- [????????? https://www.emoe.xyz/precision-circuits-hardware-design-guide/](https://www.emoe.xyz/precision-circuits-hardware-design-guide/)
- EmoeNAP [????? https://rd.emoe.xyz/projects/EmoeNAP/emoenap.html#%E5%BA%95%E5%99%AA%E6%B5%8B%E8%AF%95](https://rd.emoe.xyz/projects/EmoeNAP/emoenap.html#%E5%BA%95%E5%99%AA%E6%B5%8B%E8%AF%95)
- [????????? https://www.emoe.xyz/noise-amplifier-step-further/](https://www.emoe.xyz/noise-amplifier-step-further/)

??SDS800XHD

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<https://www.eet-china.com/mp/a307681.html>

<https://blog.csdn.net/GLSWN8829/article/details/135455736>

□□□□

1. □□□□ IP
2. □□□□ IP
3. SCPI□□□□
 1. "PRBD?" => □□□□□□
 2. "MD5_SRLN?" => □□□ SCOPEID
 3. "MD5_PR?" => □□□□□□
 4. □□ SN
 5. □□ python□□□□□□ ID
 6. "MCBD?" => □□□□□□□□ ID□□□ python□□□□□□ ID□□
 7. "MCBD FHJB3P8M93MGSYAV" => □□□□ MCBD□ 200M
 8. □□
 9. "PRBD?" => □□□□□□

python??

```
# Keygen program for Siglent oscilloscopes
import hashlib

# □□MD5_SRLN? □□□□SCOPEID
# □□□□SCOPEID□□□□□□ID
SCOPEID = '01711d421d502xxx'

# □□□□SN□□□□□□□□
SN = 'SDS08A0Q809xxx'

# □□MD5_PR?□□□□□□□□
# □□□□Model □□□□□□□□"
Model = 'SDS800X-HD'

bwopt = ('70M', '100M', '200M')
```

```

otheropt = ('AWG', 'MSO', 'PWA',)

# 000000 !!!
hashkey =
'5zao9lyua01pp7hjzm3orcq90mds63z6zi5kv7vmv3ih981vlwn06txnjdtas3u2wa8msx61i12ueh14t7kqwsfsgk032
nhyuy1d9vv2wm925rd18kih9xhkyilobbgy'

def gen(x):
    h = hashlib.md5((
        hashkey +
        (Model+'\n').ljust(32, '\x00') +
        opt.ljust(5, '\x00') +
        2*((SCOPEID if opt in bwopt else SN) + '\n').ljust(32, '\x00')) +
        '\x00'*16).encode('ascii')
    ).digest()
    key = ''
    for b in h:
        if (b <= 0x2F or b > 0x39) and (b <= 0x60 or b > 0x7A):
            m = b % 0x24
            b = m + (0x57 if m > 9 else 0x30)
        if b == 0x30:
            b = 0x32
        if b == 0x31:
            b = 0x33
        if b == 0x6c:
            b = 0x6d
        if b == 0x6f:
            b = 0x70
        key += chr(b)
    return key.upper()

print('INFO: 0000000000000000 !!!' + '\r')
print('000000SCIP000000 "PRBD?" 00000' + '\r')
print('000000SCIP000000 "MCBD?" 000000' + '\r')
print('0000000000000000')
print('INFO: 00000000000000000000000000 !!!')

print('-----')
print('0000000000SCIP00000000')
for opt in bwopt:

```

```

print('{:5} {}'.format(opt, gen(SCOPEID)))

print('-----')
print('UI')
print('SDS800XHD-FG   AWG')
print('SDS800XHD-16LA  MS0')
print('SDS800XHD-PA   PWA')
for opt in otheropt:
    print('{:5} {}'.format(opt, gen(SN)))

```

????

```

master > python SDS804XHD.py
INFO:  !!!
SCIP "PRBD?" 
SCIP "MCBD?" 
INFO:  !!!
-----
SCIP
70M   3Y35BBM8S2P6xxxx
100M  IRKBIJ522YX2xxxx
200M  FHJB3P8M93MGxxxx
-----
UI
SDS800XHD-FG   AWG
SDS800XHD-16LA  MS0
SDS800XHD-PA   PWA
AWG   PGWGM3Y3PHY7xxxx
MSO   PWRT8MV8FMWFxxxx
PWA   ZJKWUQ33MAPSxxxx

```


KICKPI K2B ???????

1. sudo `vim /etc/wpa_supplicant.conf` " " "

```
2. ctrl_interface=/var/run/wpa_supplicant
   ap_scan=1
   update_config=1
```

```
   network={
       ssid="Liang"
       psk="wifil234"
       key_mgmt=WPA-PSK
   }
```

3. `wpa_supplicant -D nl80211 -i wlan0 -c /etc/wpa_supplicant.conf -B`

1. `/var/run/wpa_supplicant`

2. `/var/run/wpa_supplicant/wlan0`

4. `dhclient wlan0` wifi

5. `vi /etc/network/interfaces`

```
6. auto wlan0
   allow-hotplug wlan0
   iface wlan0 inet dhcp
   wpa-conf /etc/wpa_supplicant.conf
```

M40 ??cuda?torch

1. BIOS
 1. BIOS PCIE 4G BIOS
 2. BIOS V100 BIOS above 4g decoding resize bar csm
2. BIOS
 1. `sudo add-apt-repository ppa:graphics-drivers/ppa`
 2. `sudo apt update`
 3. `sudo apt install nvidia-driver-550`
3. CUDA 11.8
 1. https://developer.nvidia.com/cuda-11-8-0-download-archive?target_os=Linux&target_arch=x86_64&Distribution=Ubuntu&target_version=22.04&target_type=runfile_local
 2. `sudo sh cuda*`
4. Pytorch
 1. <https://pytorch.org/get-started/previous-versions/>
 2. `pip install torch==2.5.1 torchvision==0.20.1 torchaudio==2.5.1 --index-url https://download.pytorch.org/whl/cu118`

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[an-159.pdf](????????? 2nV_√ Hz??? 120dB ??? /an-159.pdf)

[AN159_Layout_Files.zip](????????? 2nV_√ Hz??? 120dB ??? /AN159_Layout_Files.zip)

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1. [] []

2. []

3. model3 [] 90% []

4. []

5. []

6. [] 100-30 [] 80-30

7. []

1. [] >20% [] 40% []

2. [] >100% [] >=2 []

3. [] 60% [] 20% [] <40% []

4. [] 10% [] 60 [] []

[]

[] 20%~80% [] 10% [] 90% []

[] []

[] 0°C ~ 45°C [] 15°C ~ 35°C [] []

[] [] 50%~60% []

[] [] 1~2 []

[] / [] [] 0°C [] 45°C []

[] []