# Lierda NR90-HCN

## ADP

Rev1.0

2023-11-01

: 1326 Tel:0571-88800000 Fax:0571-8990808

“ ”

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|---|---|---|---|---|
| Rev1.0 | 2023-11-02 | | | |
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| | | | | |
|---|---|---|---|---|
| 1 | NR90-HCN<br>LCC | | NR N1,N3,N5,N8,N28,N41,N78,N79<br>LTE:B1,B3,B5,B8,B34,B38,B39,B40,B41<br>WCDMA:B1,B5,B8 | 5G SA 5G |

.....1
.....2
.....3
.....4
.....5
1 .....7
1.1 .....7
1.2 .....7
2 .....8
2.1 .....8
2.2 .....9
2.3 .....9
2.4 LGA .....10
2.5 .....10
3 .....11
3.1 .....11
3.2 USB .....13
3.3 .....14
3.4 & .....14
3.5 .....14
3.6 / .....14
3.7 .....15
3.8 3.3V LDO .....15
3.9 .....16
3.10 SIM .....16
3.11 .....16

3.12 .....17
3.13 .....17
3.14 WPS .....18
3.15 WIFI .....18
3.16 .....18
3.17 .....19
4 .....20
4.1 .....20
4.2 USB .....20
4.3 .....20
4.4 .....20
5 .....21

# 1

NR90-HCN 5G ADP

“ ADP ”

## 1.1

ADP NR90-HCN 5G

USB2.0 SIM BTB

NR90-HCN 5G EVB

Open CPU

## 1.2

ADP

1.1 ADP

| | | |
|---|---|---|
| 1 | | TypeC DC_IN EVB |
| 2 | BTB | EVB |
| 3 | USB2.0 | Type C |
| 4 | | 115200bps |
| 5 | | |
| 6 | | |
| 7 | SIM | |
| 8 | WIFI | SDIO WIFI |
| 9 | | RGMII |

# 2

## 2.1

ADP NR90-HCN 5G LCC-LGA 144
LGA ADP
ADP NR90-HCN 5G TypeC
&
USB 3.3V LDO
WPS WIFI Redcap

ADP

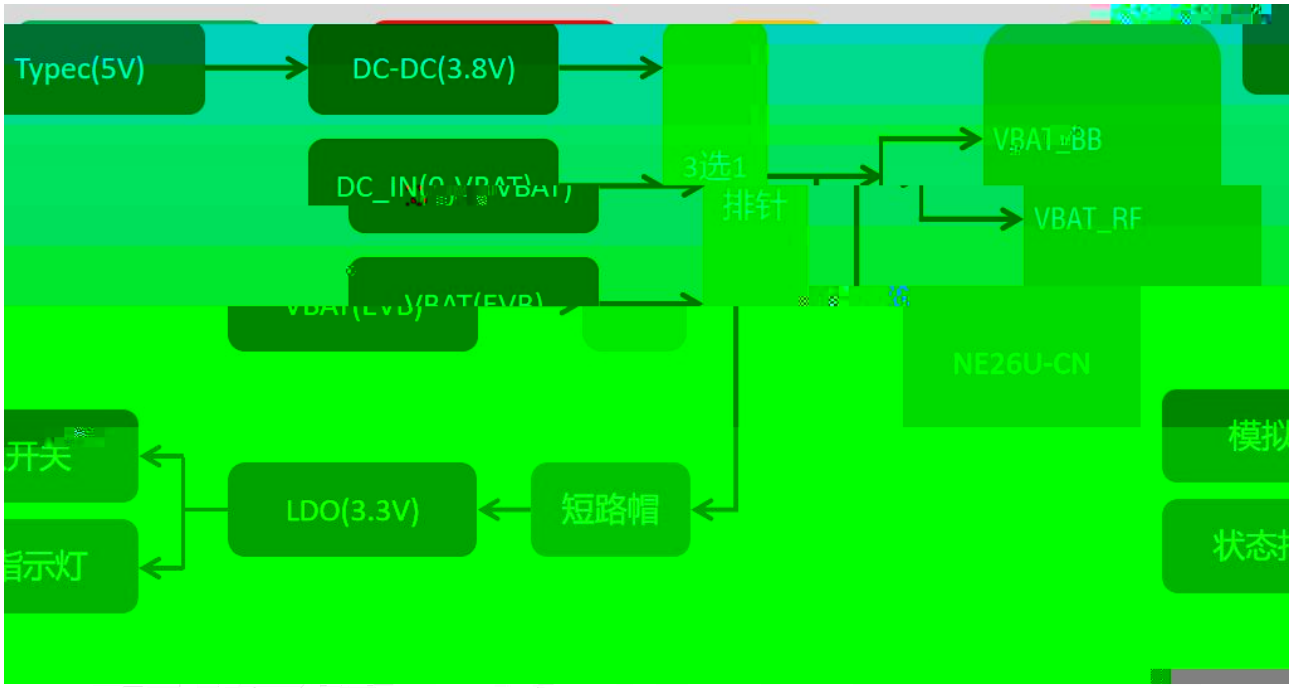
2.1 ADP

# 3

## 3.1

ADP TypeC DC_IN EVB

ADP




3.1 ADP

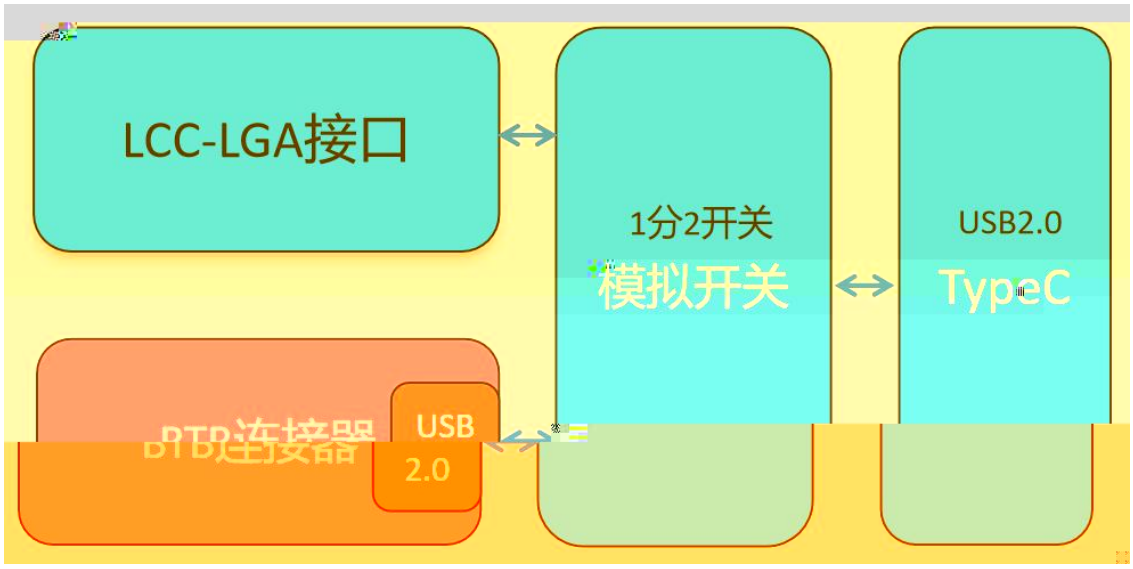
1~ TypeC TypeC USB P2 VBAT 3V8

3.2 ADP TypeC

2~ DC_IN P2

## 3.2 USB

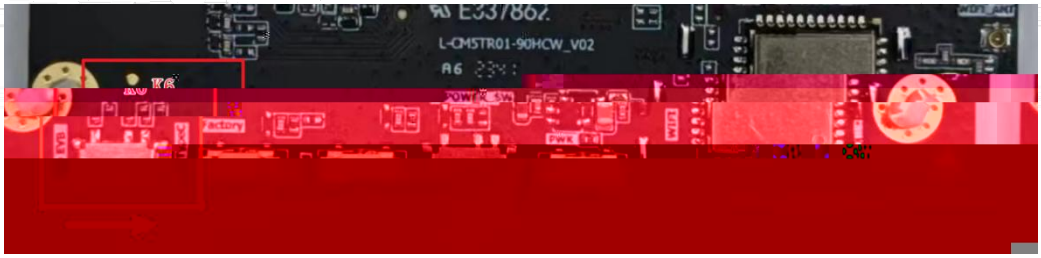
ADP LGA TypeC EVB BTB
USB2.0 USB2.0 USB TypeC USB2.0
BTB USB2.0 USB




3.5 ADP USB

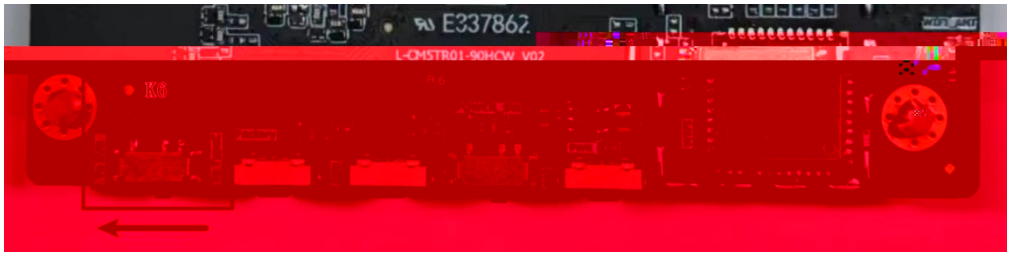
NR90-HCN 5G USB

1 TypeC USB K6 :To TypeC




3.6 ADP USB To TypeC

2 EVB USB K6 :To EVB




3.7 ADP USB To EVB

p P5 USB USB

3

K5 ADP

3.8 ADP

## 3.4 &VPr

3.11 ADP / &

## 3.7

WIFI NET_MODE NET_STATUS STATUS WIFI

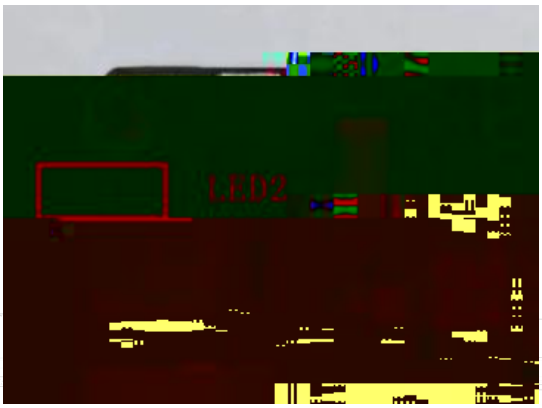
08 ⅹr

3.13 ADP

3.14 ADP 3.3V LDO

## 3.9

LED2 TypeC DC_IN EVB LED2




3.15 ADP

## 3.10 SIM

ADP SIM SIM1

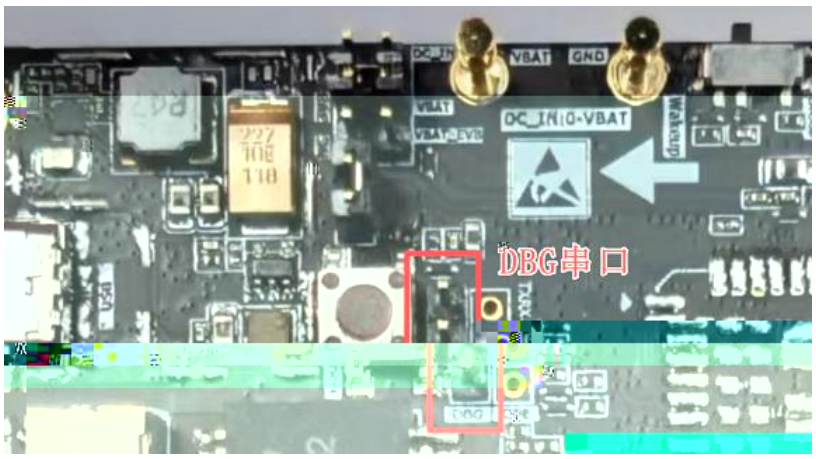
3.16 ADP SIM

## 3.11

P6 115200bps 1.8V

1.8V

1.8V




3.17 ADP

## 3.12

K10 K10 2S

USB2.0

3.18 ADP

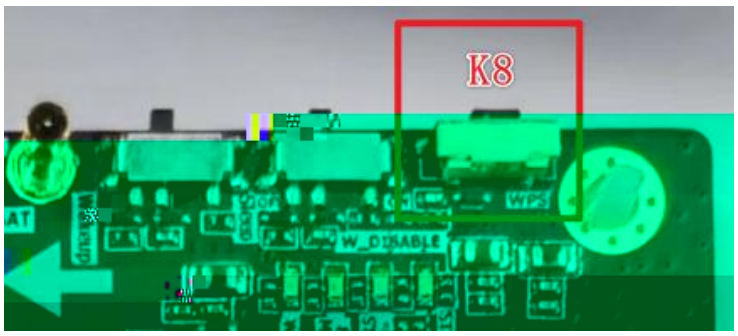
## 3.13

K7 K7

3.19 ADP

## 3.14 WPS

K8 WPS K8 WPS




3.20 ADP WPS

## 3.15 WIFI

ADP ъ 1 ɷ WIFI ˘ ˆ ɣ ą Â WIFI ο Йʹ

## 3.16

ADP ъ 1 ɷ RGMII PHY ǐ ǐ ο ˘ ~ ˘ Ð ˇ ث Ɠ˘ ˠˆ

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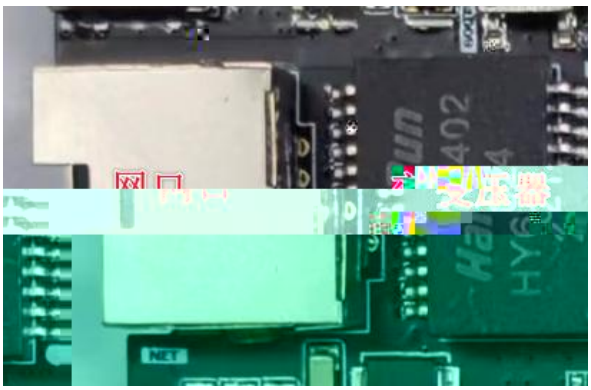

## 3.17

ADP 2 MAIN DIV 50Ω

3-15-1

| | | | | |
|---|---|---|---|---|
| 49 | M | TRx0 | WCDMA:B1/5/8<br>LTE: B1/3/5/8/34/38/39/40/41<br>NR: n1/3/5/8/28/41/78/79 | 703 5000 |
| 35 | D | Rx1 | WCDMA:B1/5/8<br>LTE: B1/3/5/8/34/38/39/40/41<br>NR: n1/3/5/8/28/41/78/79 | 703 5000 |

3-15-2

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|---|---|
| | 50ß |
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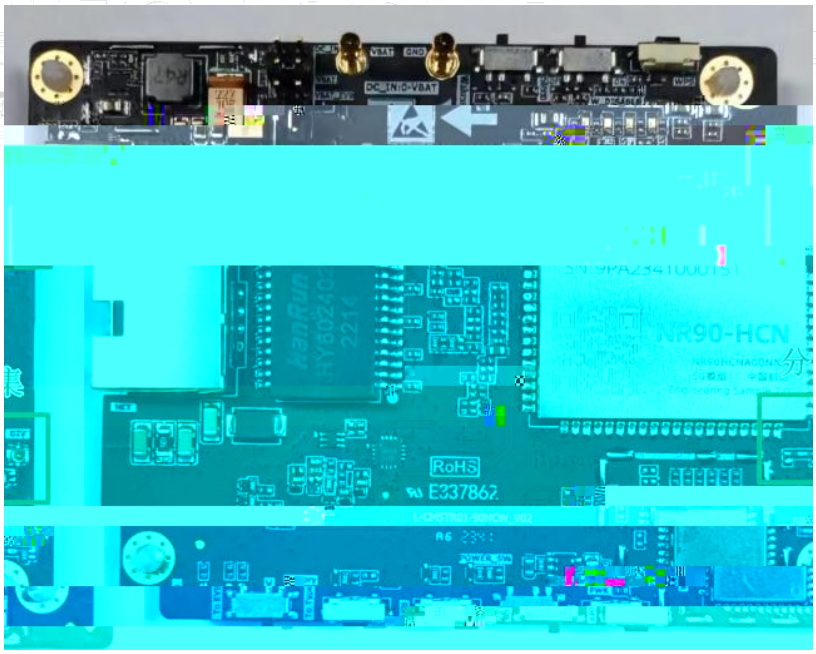
| | |
| ج | 700-5000Mhz |

OTA




3.21 ADP

# 5

5.1

| | | |
|---|---|---|
| | | |
| [1] | NR90-HCN | |
| [2] | EVB | EVB |
| | | |
| | | |
| | | |

5.2

| | |
|---|---|
| ADP | Adapter Plate |
| EVB | Evaluation Board |
| 5G | 5th Generation Mobile Networks |
| USB | Universal Serial Bus |