

ANATOMIA DI UN CELLULARE

23 Marzo 2020

Rep tv

RSI

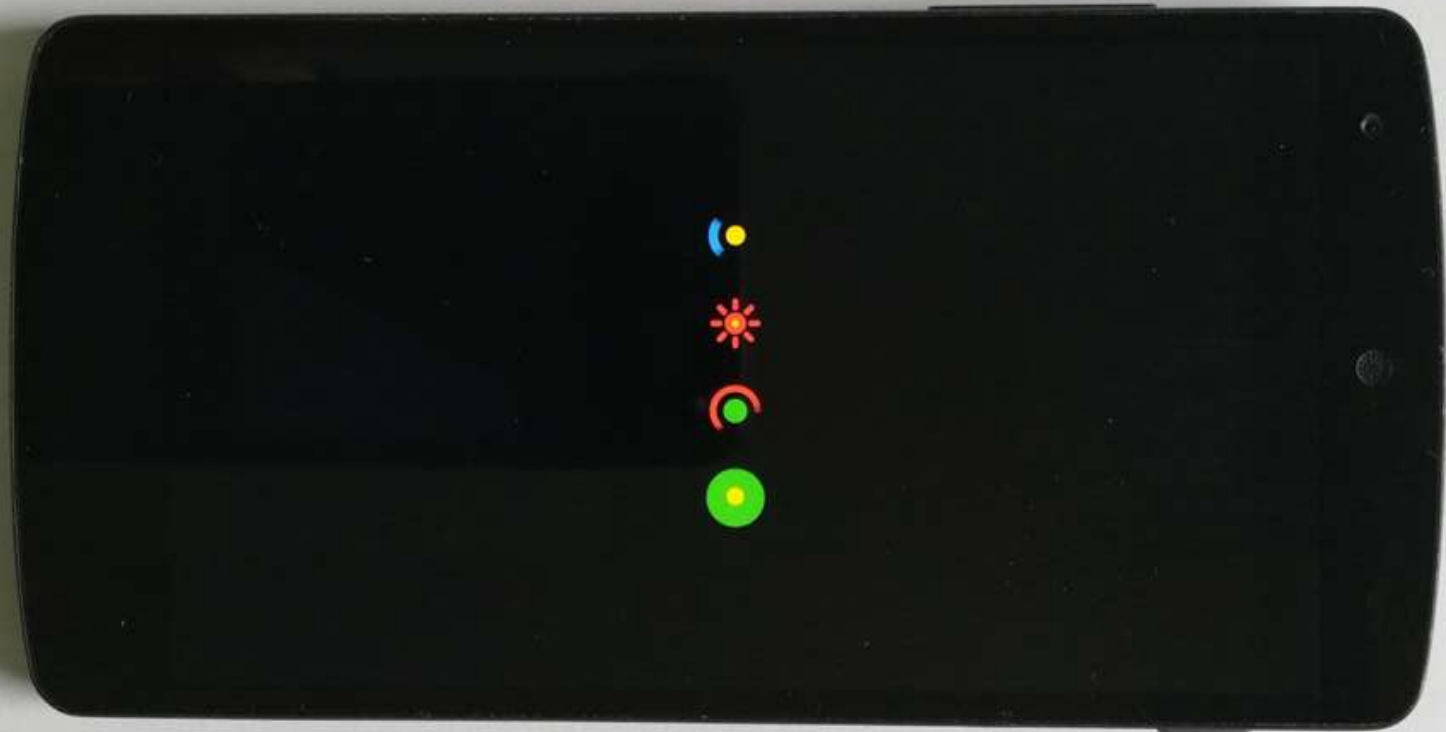
PSN
78



Anatomia di un cellulare



LG NEXUS 5

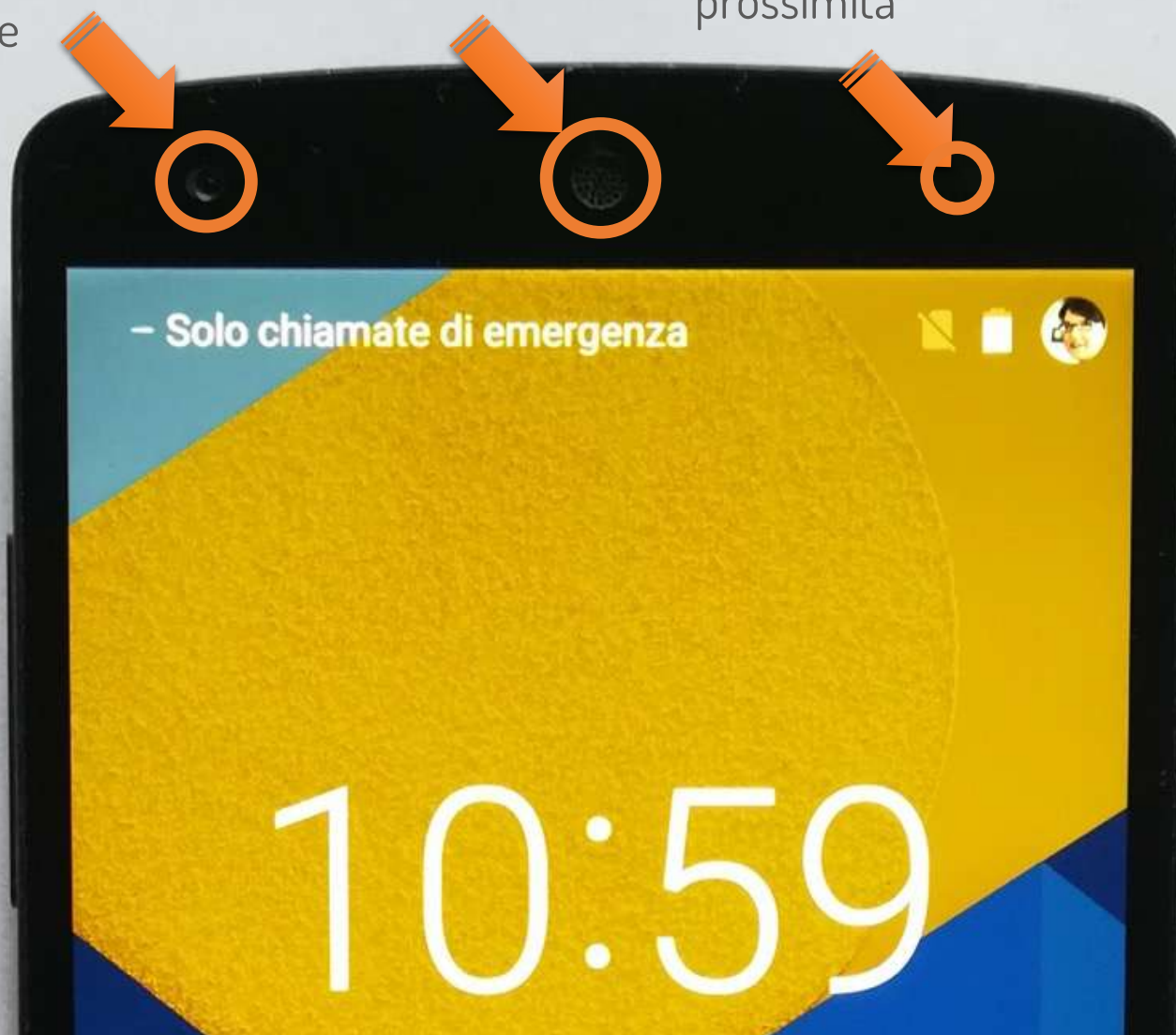


LG NEXUS 5

Telecamera
frontale

Speaker

Sensore di
prossimità







Microfono
per la soppressione del
rumore ambientale

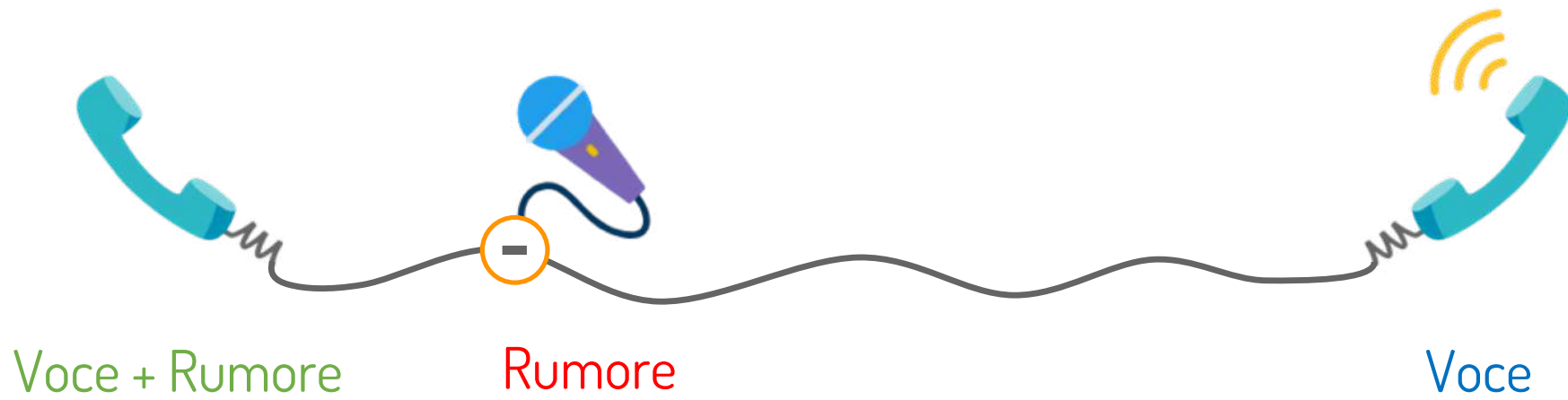


Connettore per
cuffie e microfono



Voce + Rumore

Voce + Rumore



$$[\text{Voce} + \text{Rumore}] - \text{Rumore} = \text{Voce}$$

- Solo chiamate di emergenza



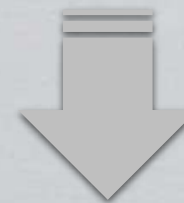
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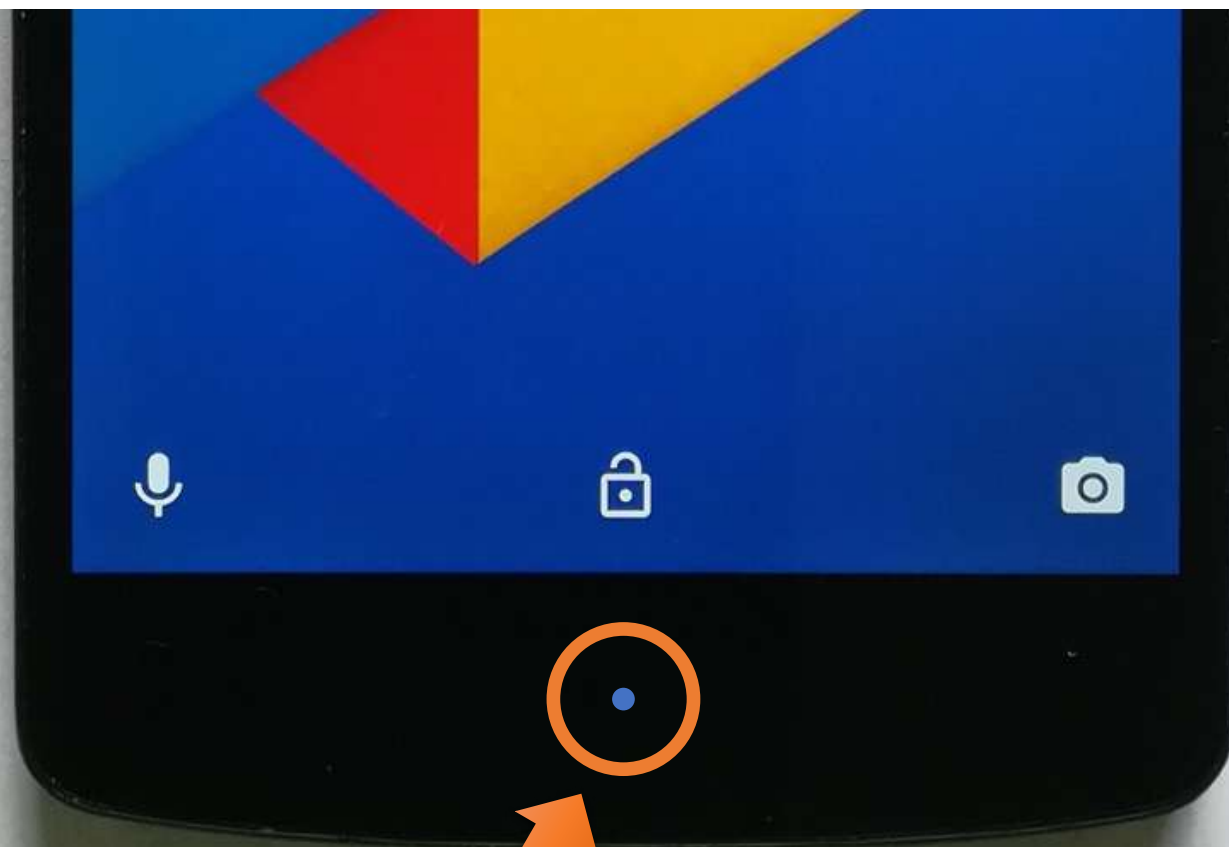
SABATO 17 NOVEMBRE



10:59

SABATO 17 NOVEMBRE





Indicatore LED di stato

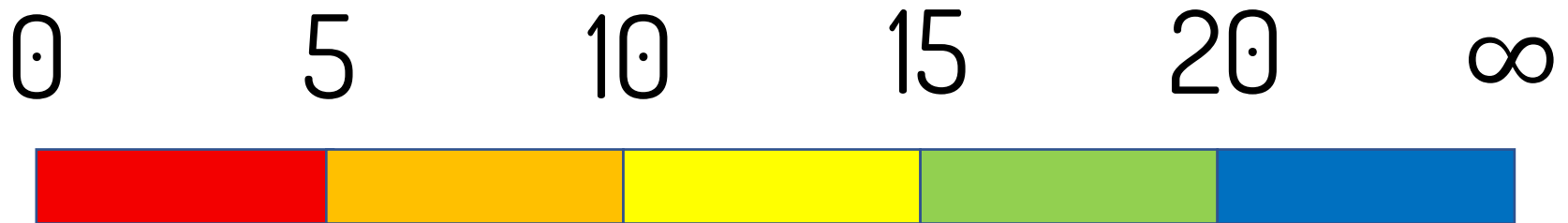


Sondaggio

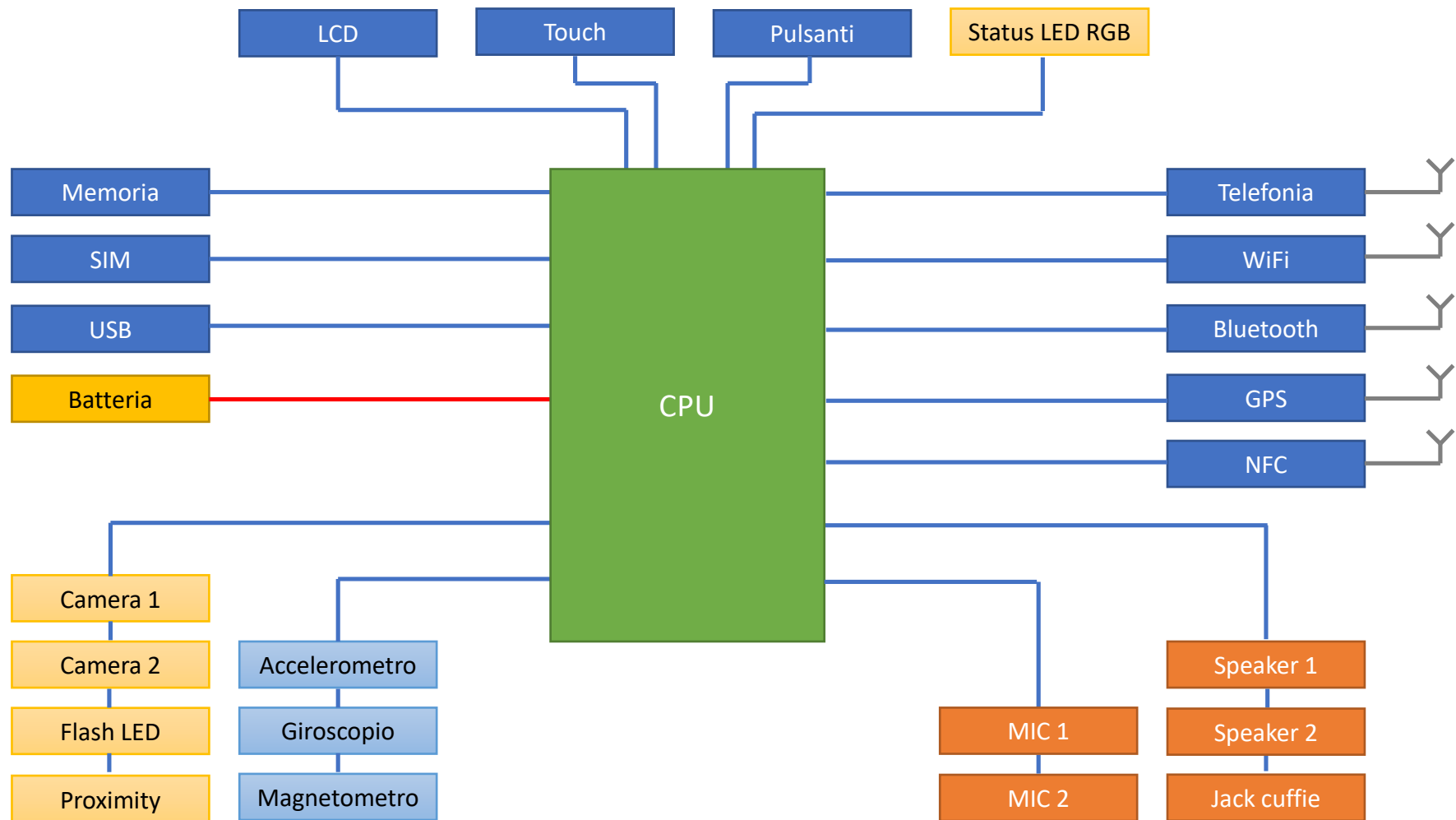
Quante antenne
ha uno smartphone?

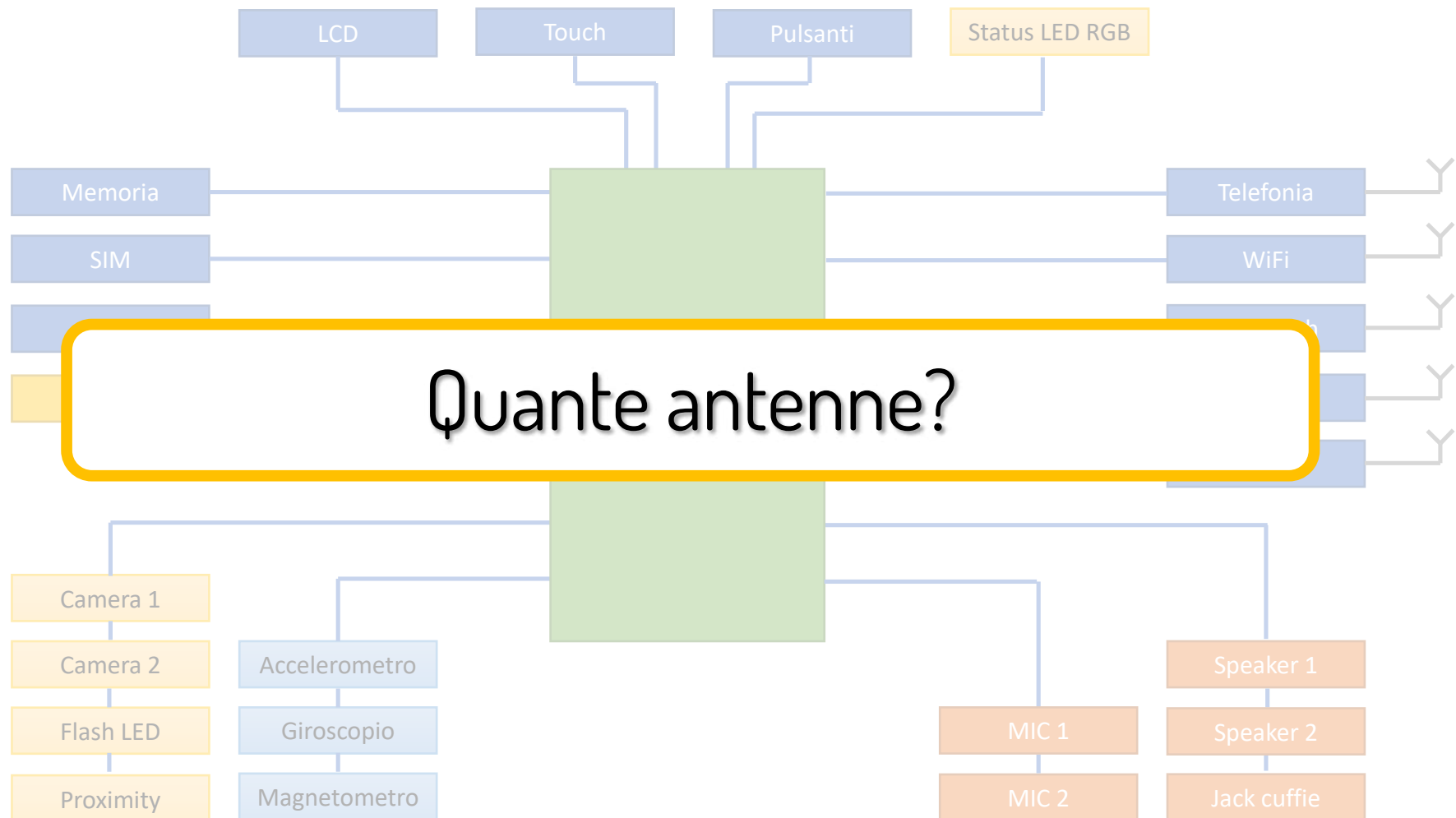


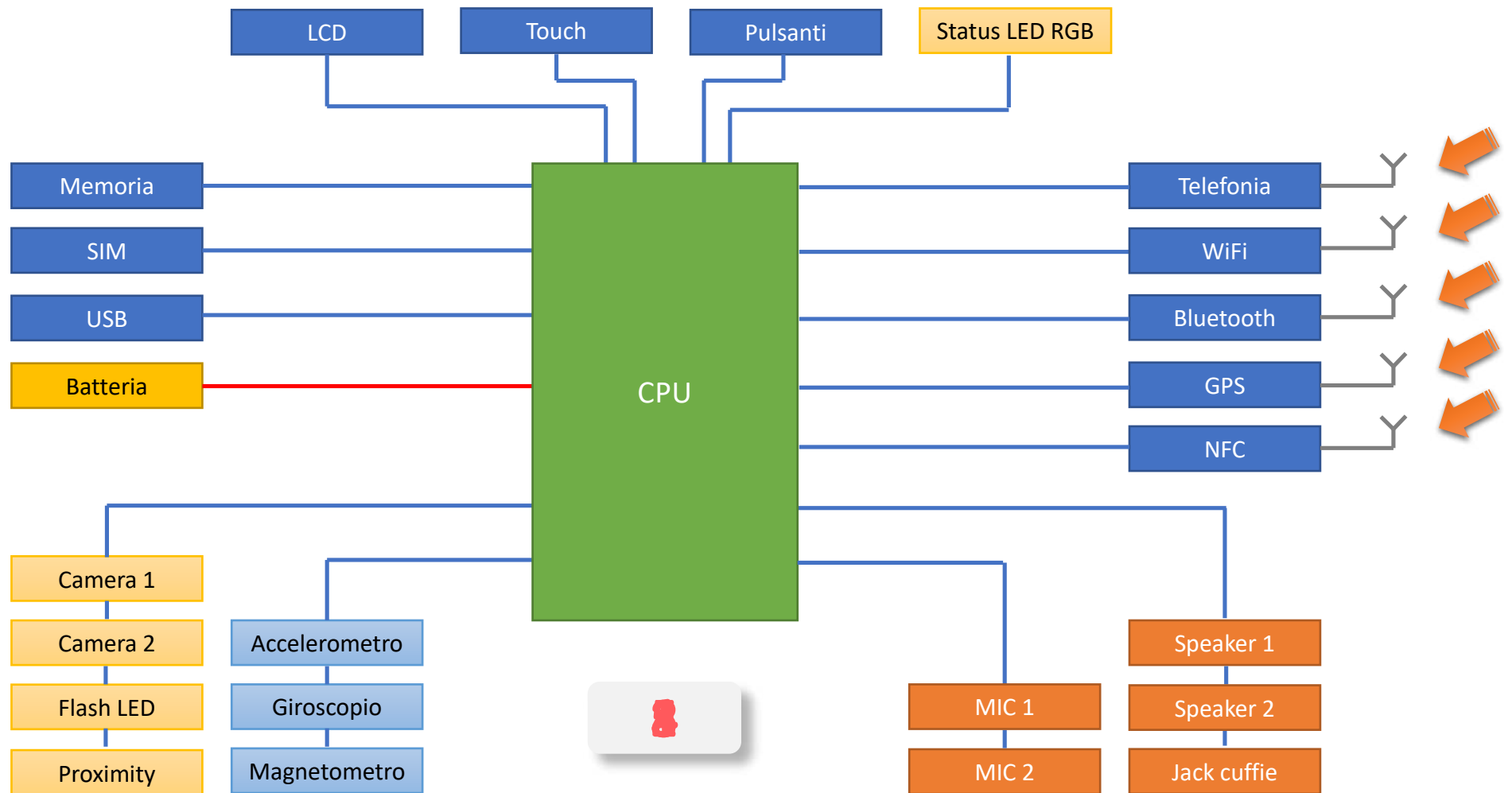
Quanti sensori/trasduttori
ha uno smartphone?

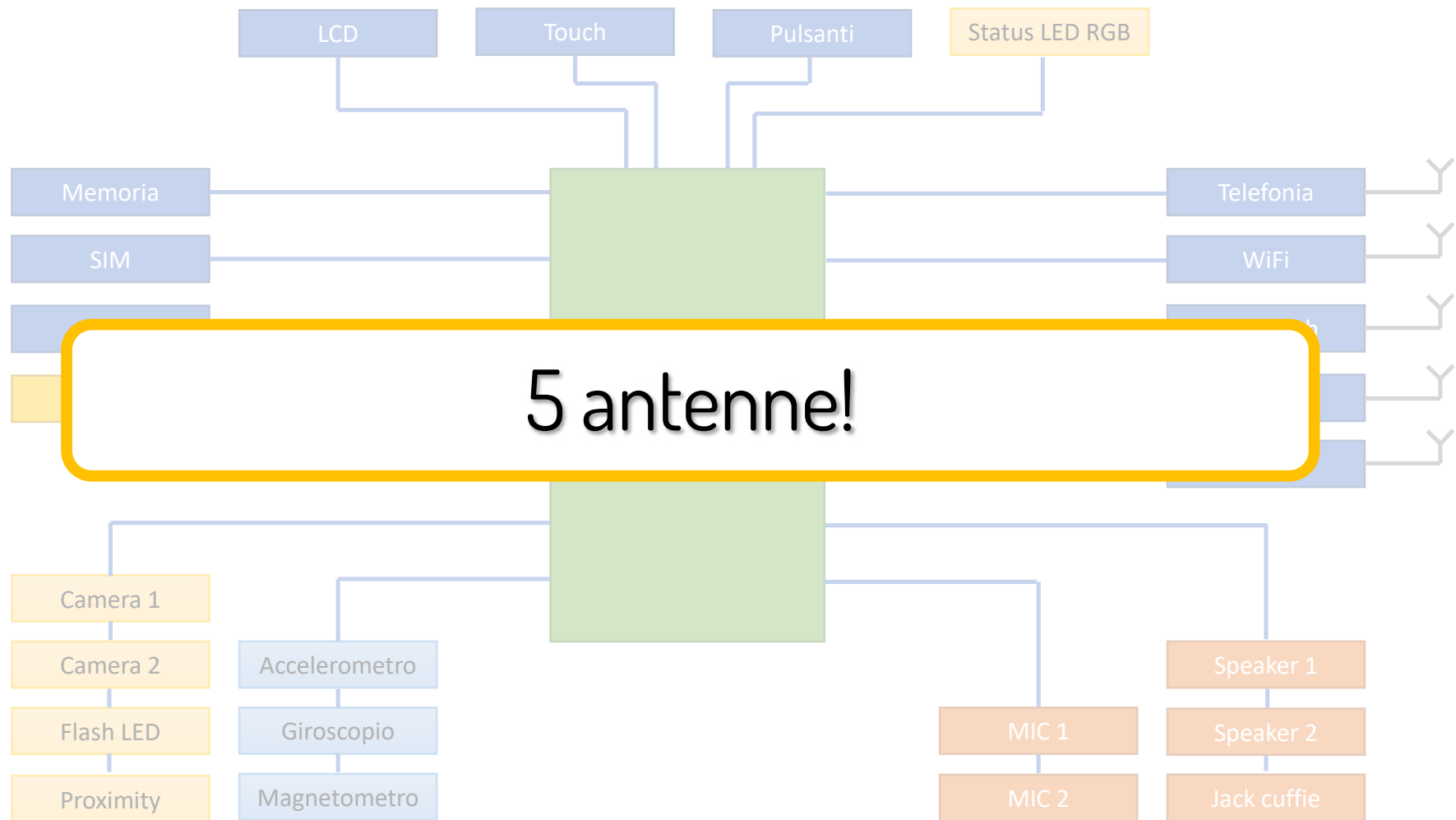


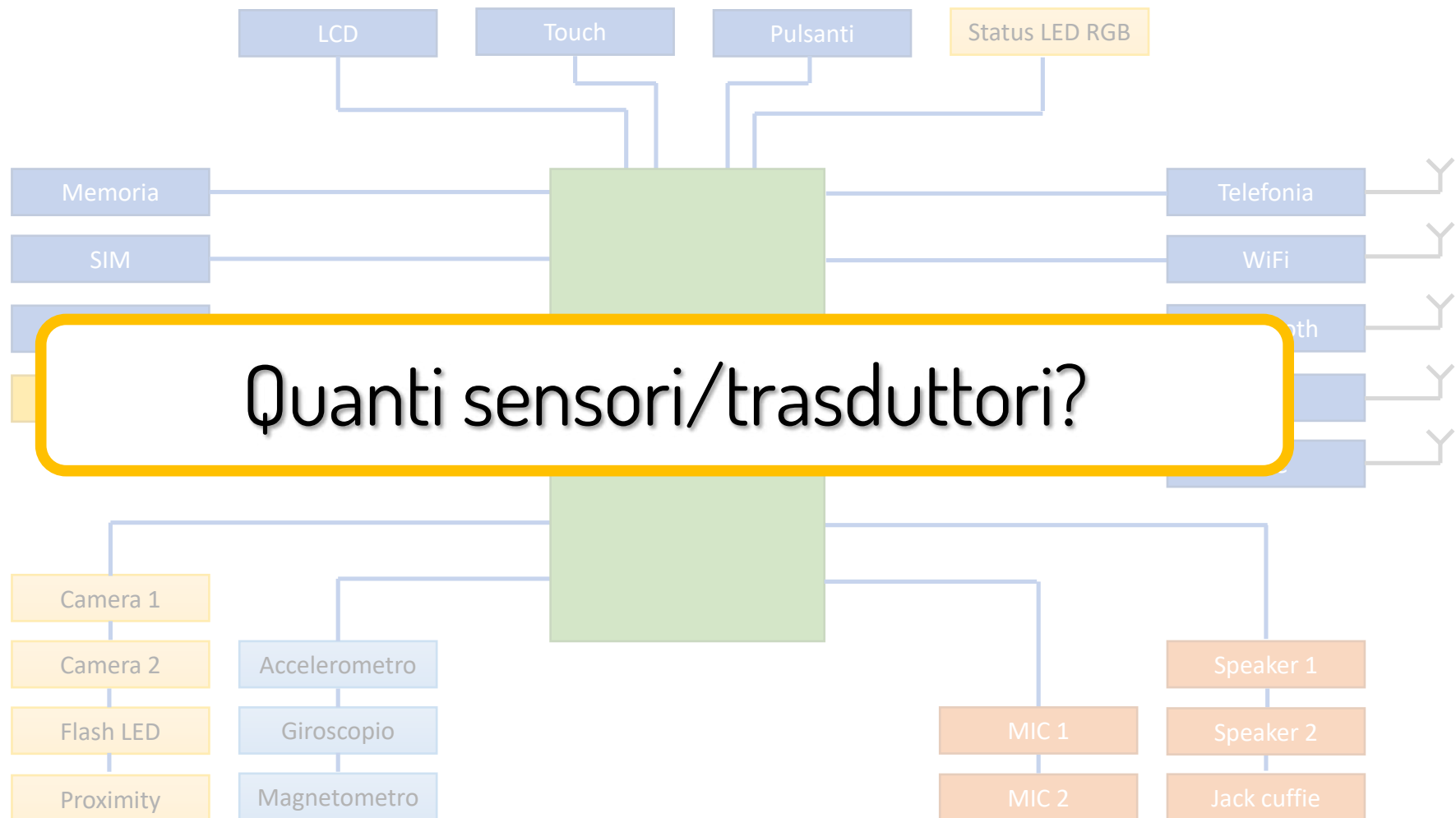
Architettura (semplificata) di un cellulare

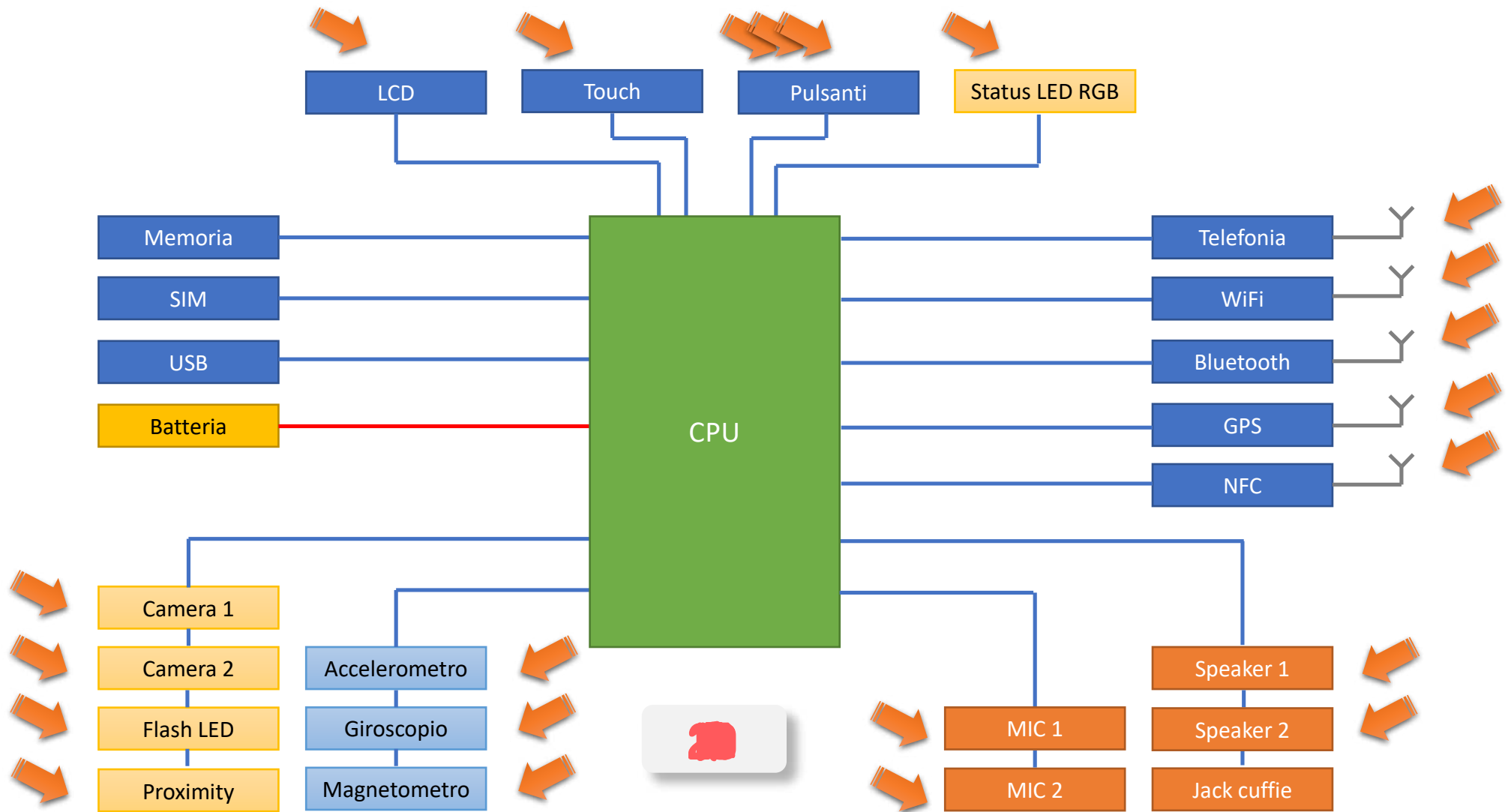


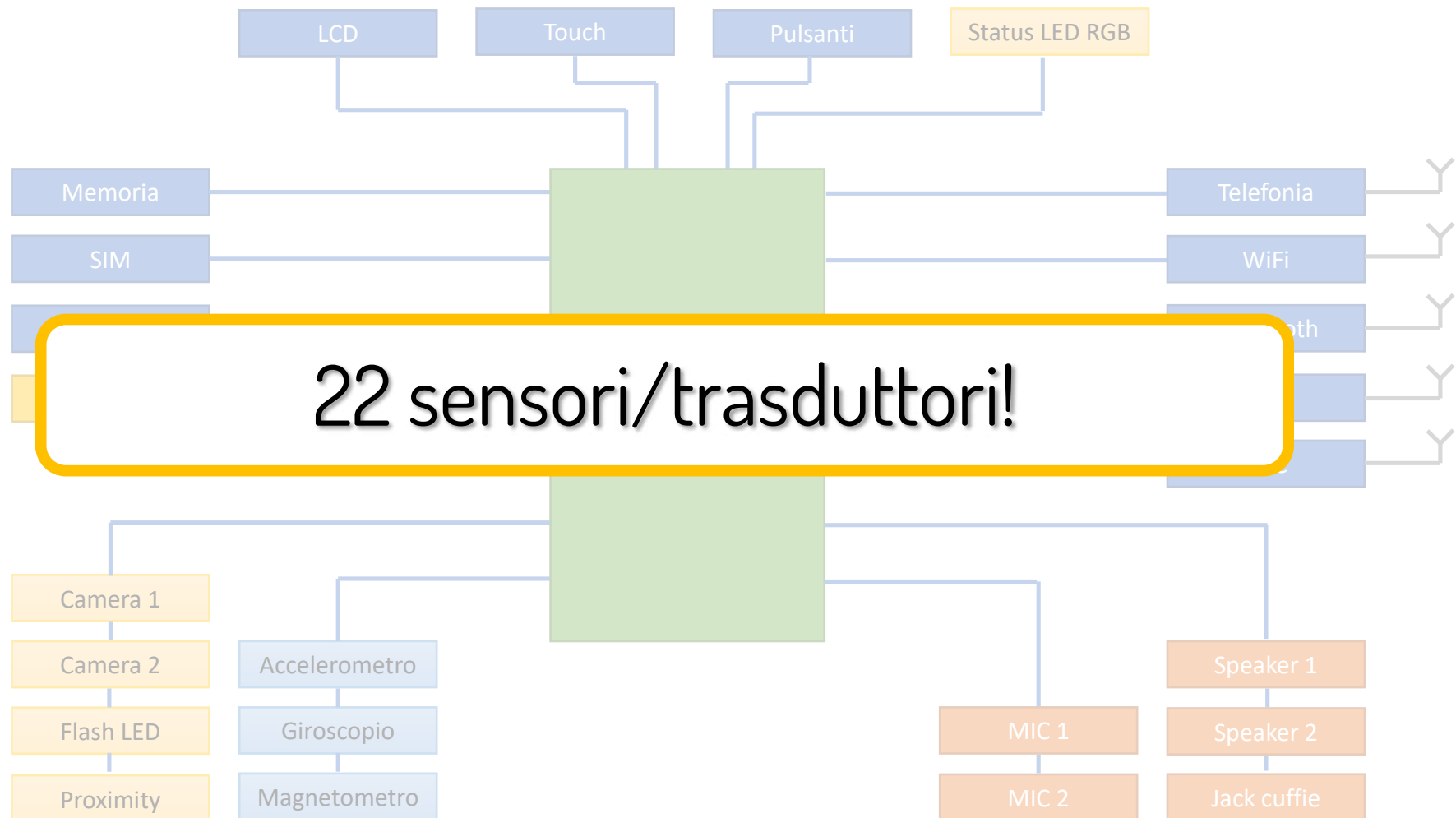






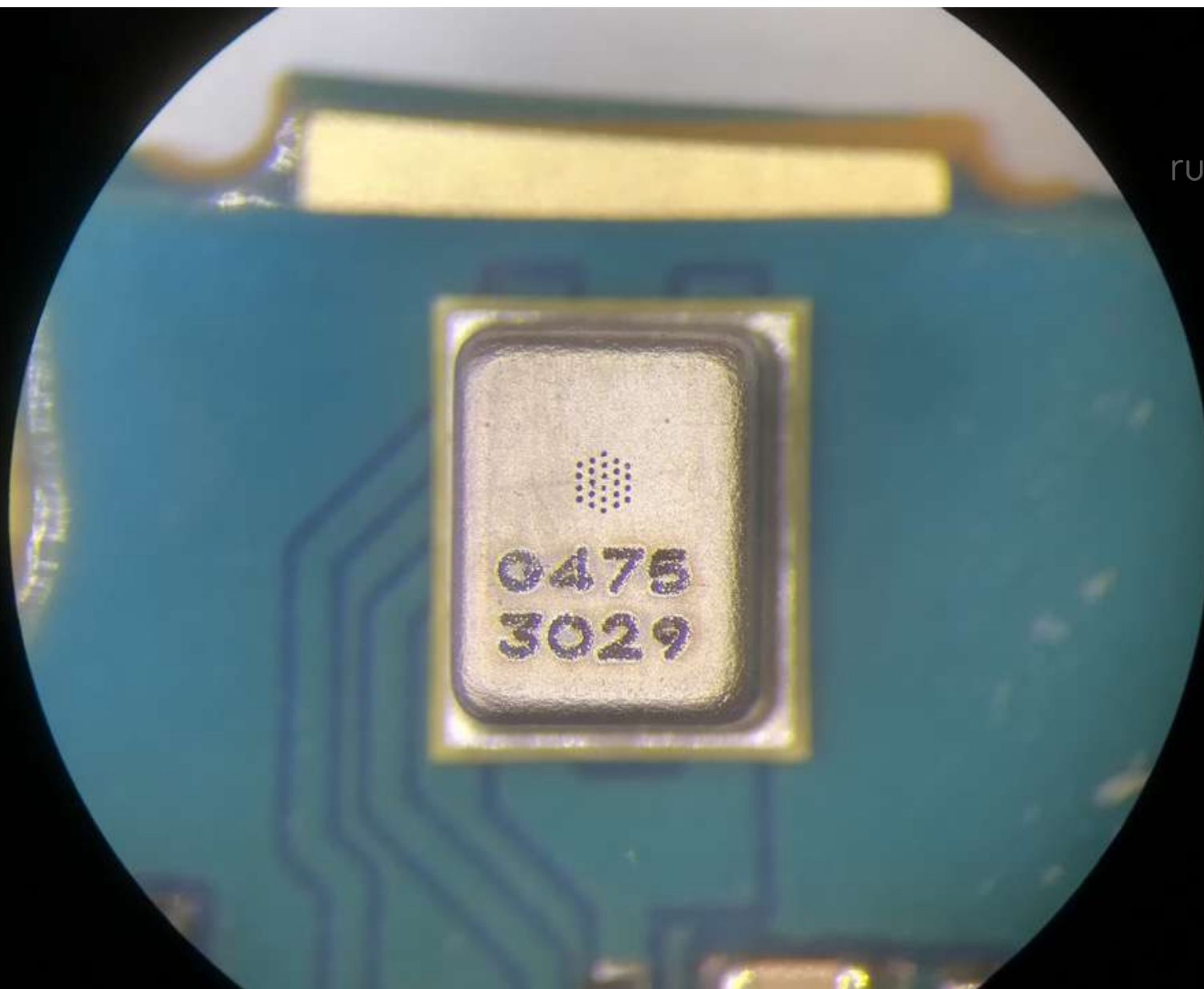






Indovina cos'è...

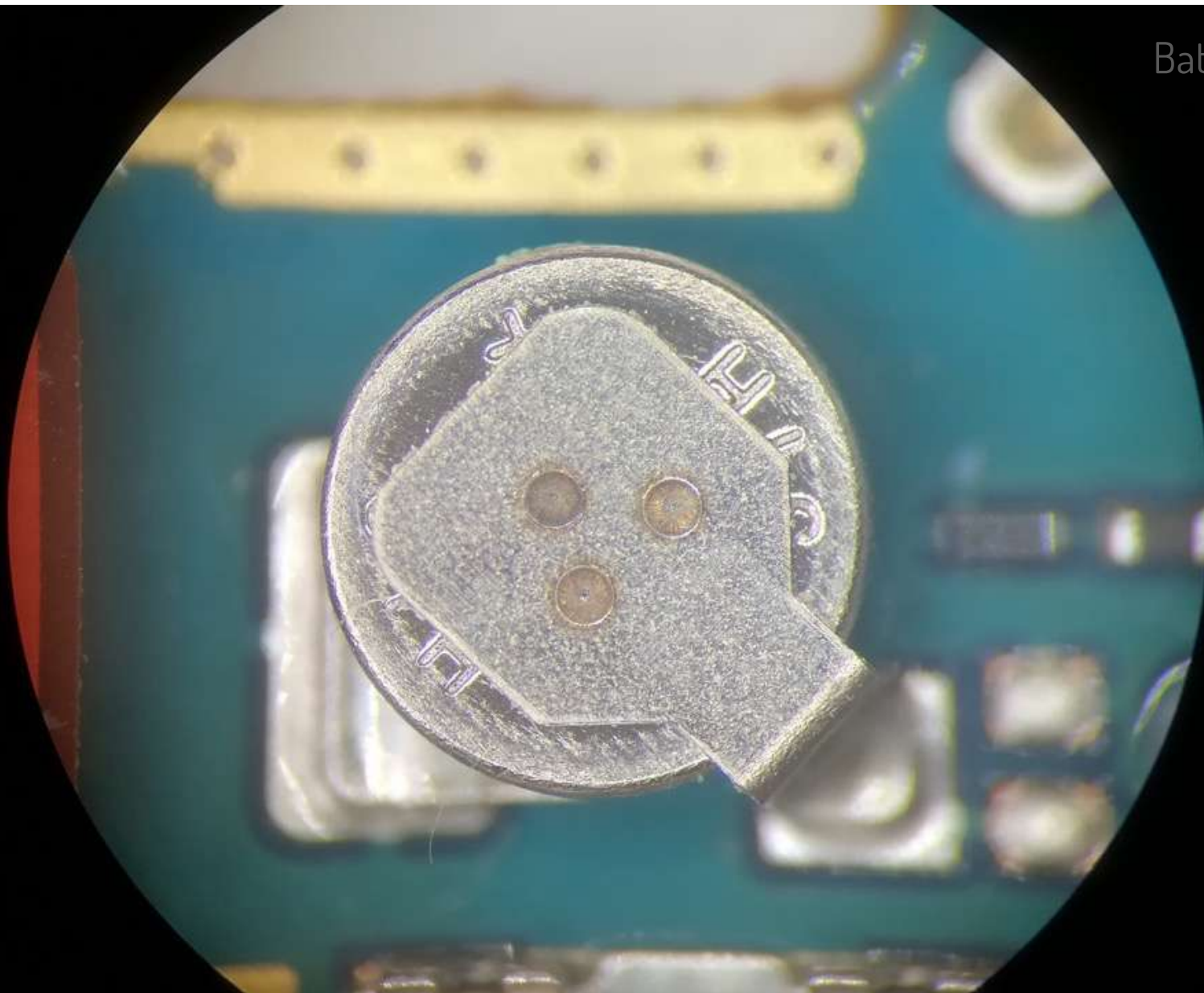
Microfono per la
soppressione del
rumore ambientale





Microfono per la
soppressione del
rumore ambientale

Batteria tampone



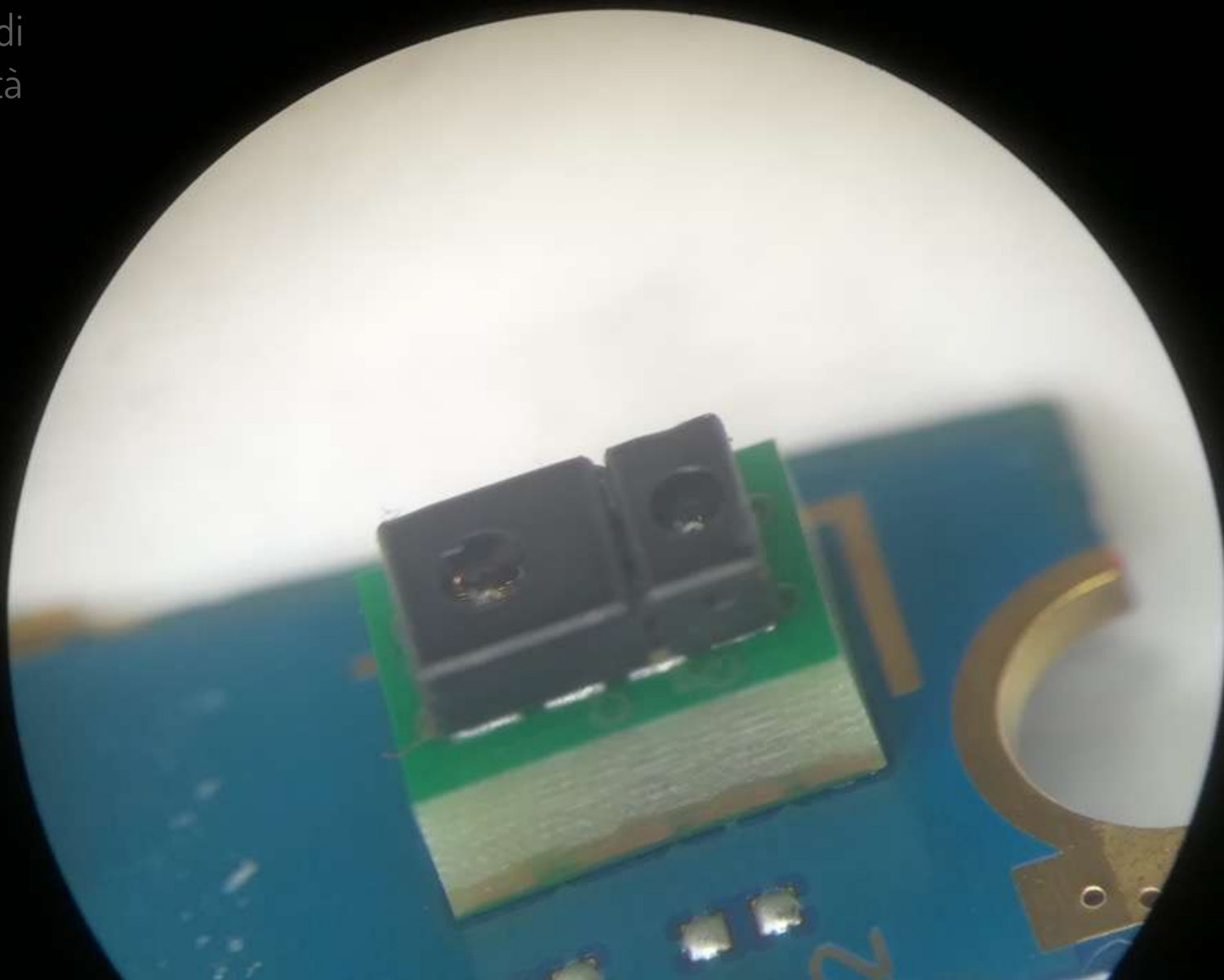
Sensore di
prossimità



Ricevitore
Fotodiodo

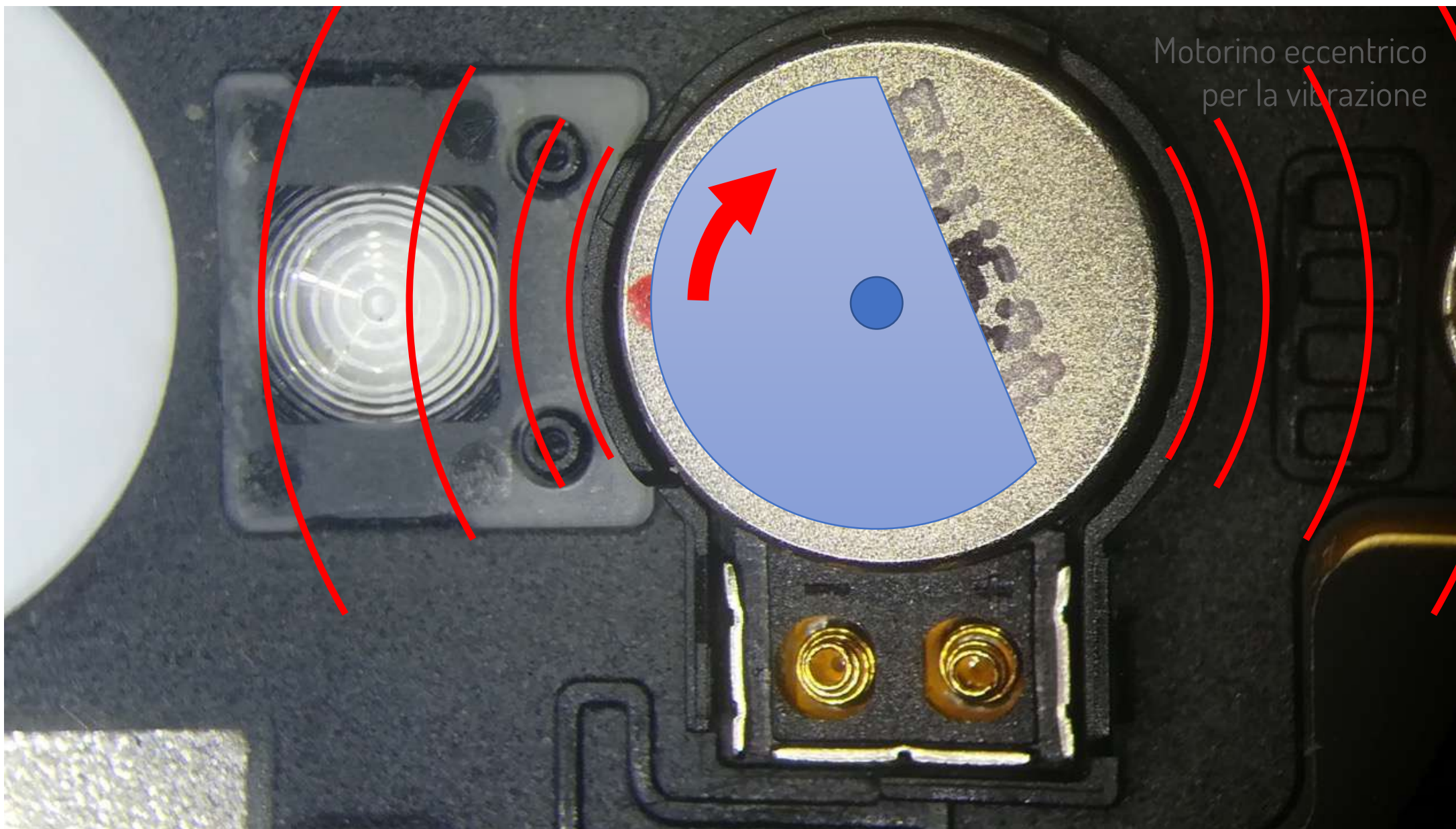
Emettitore
Diodo LED a
infrarossi

Sensore di
prossimità



Sensore di
prossimità

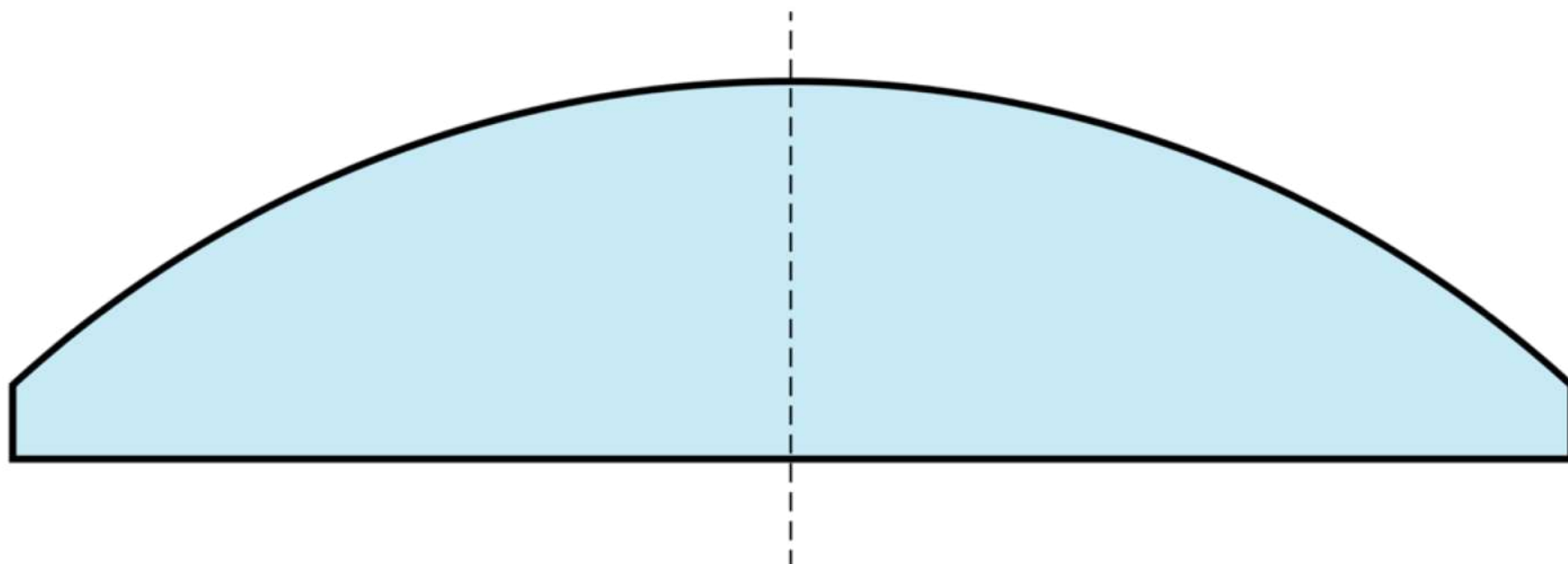


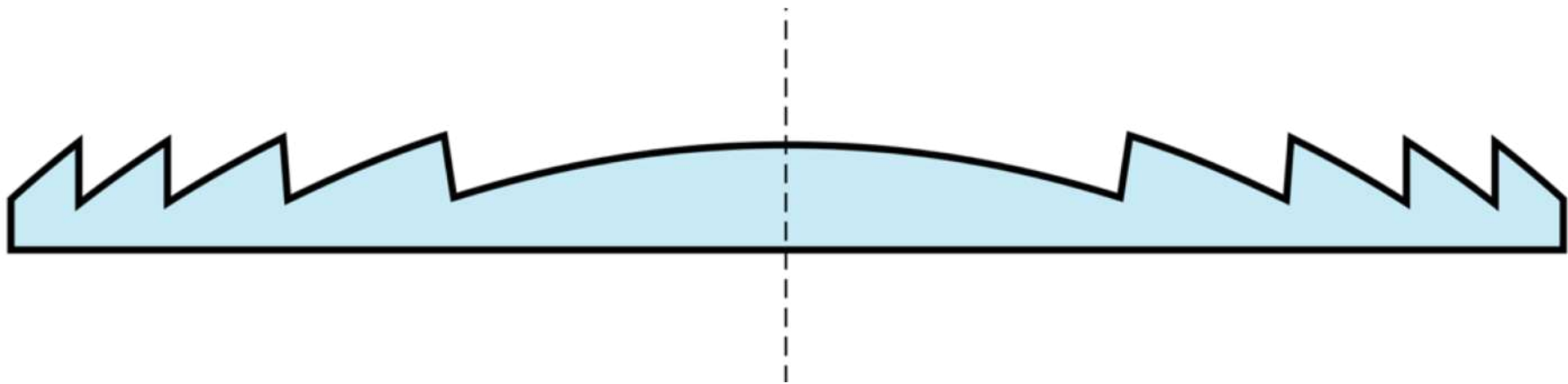


Motorino eccentrico
per la vibrazione

Lente di Fresnel

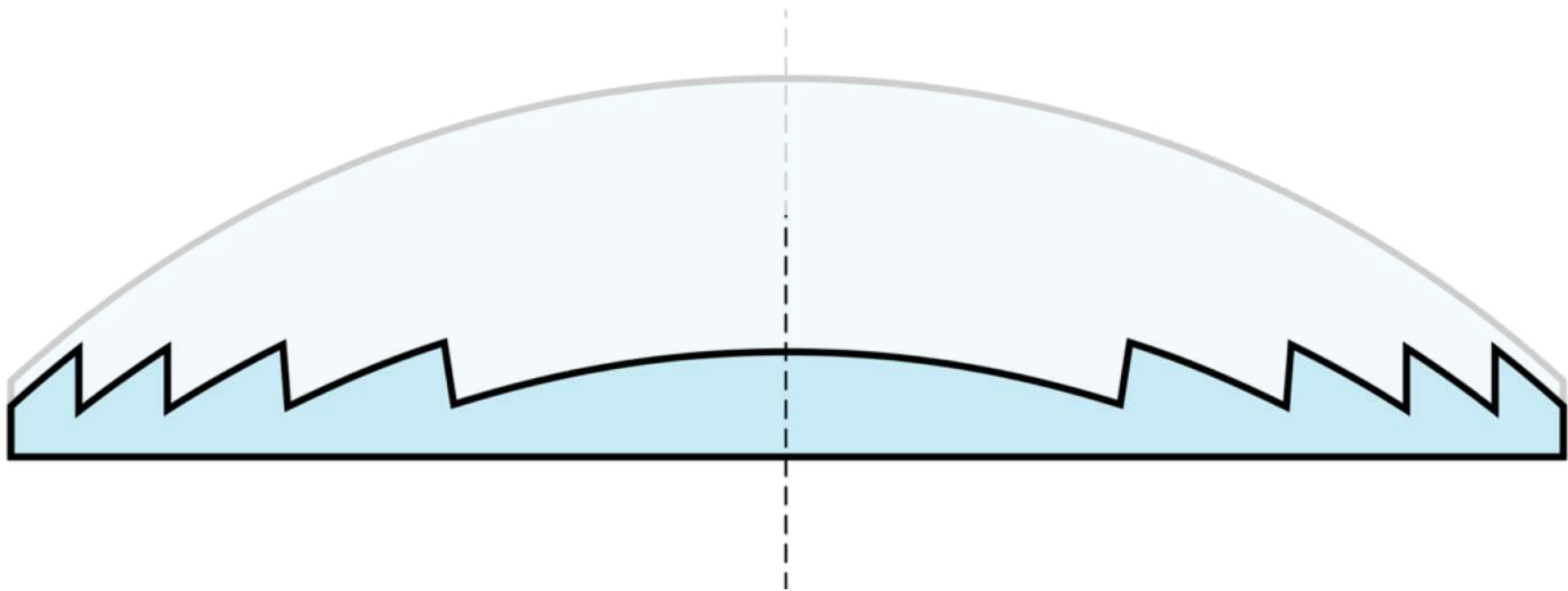






Lente di Fresnel

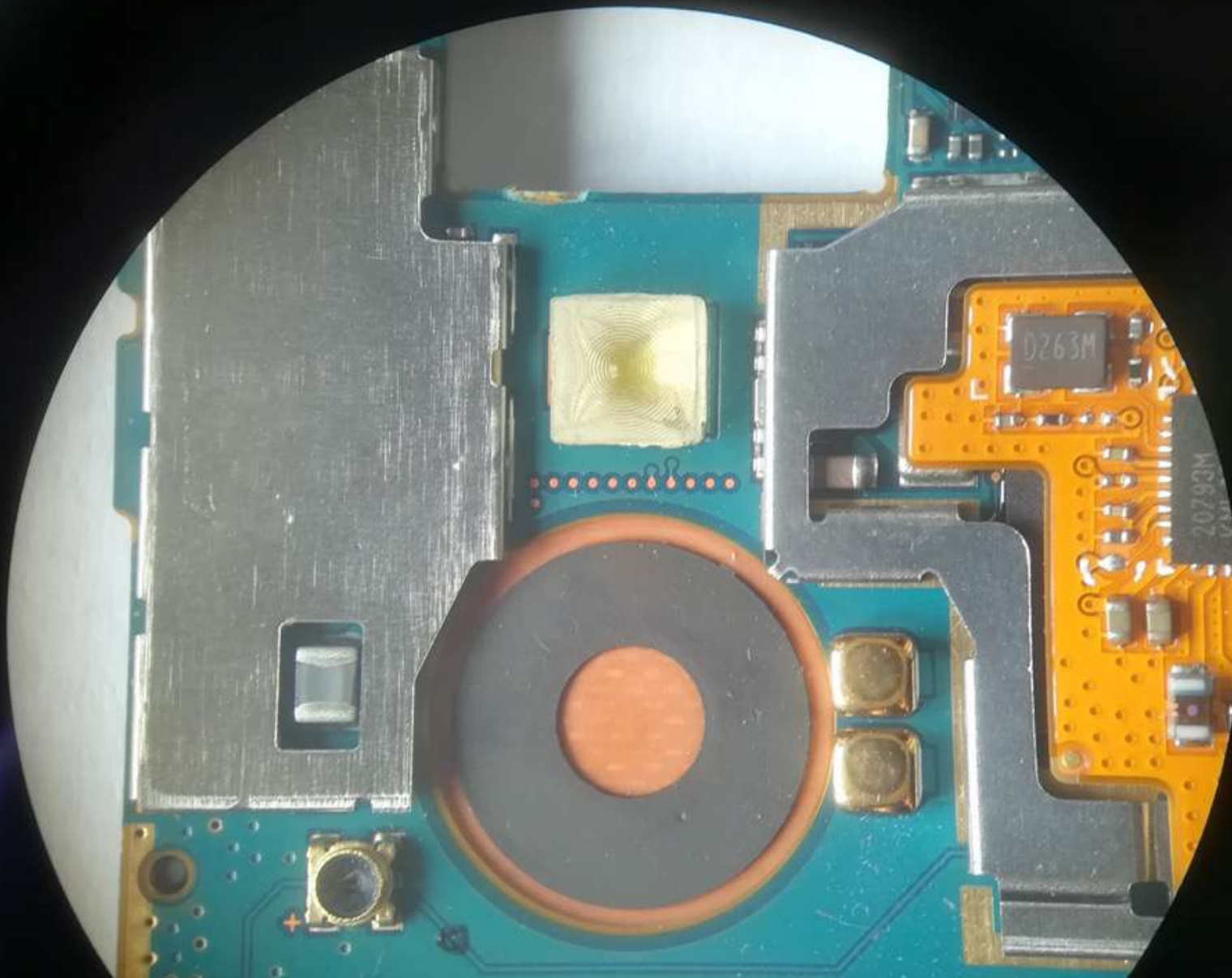
https://it.wikipedia.org/wiki/Lente_di_Fresnel



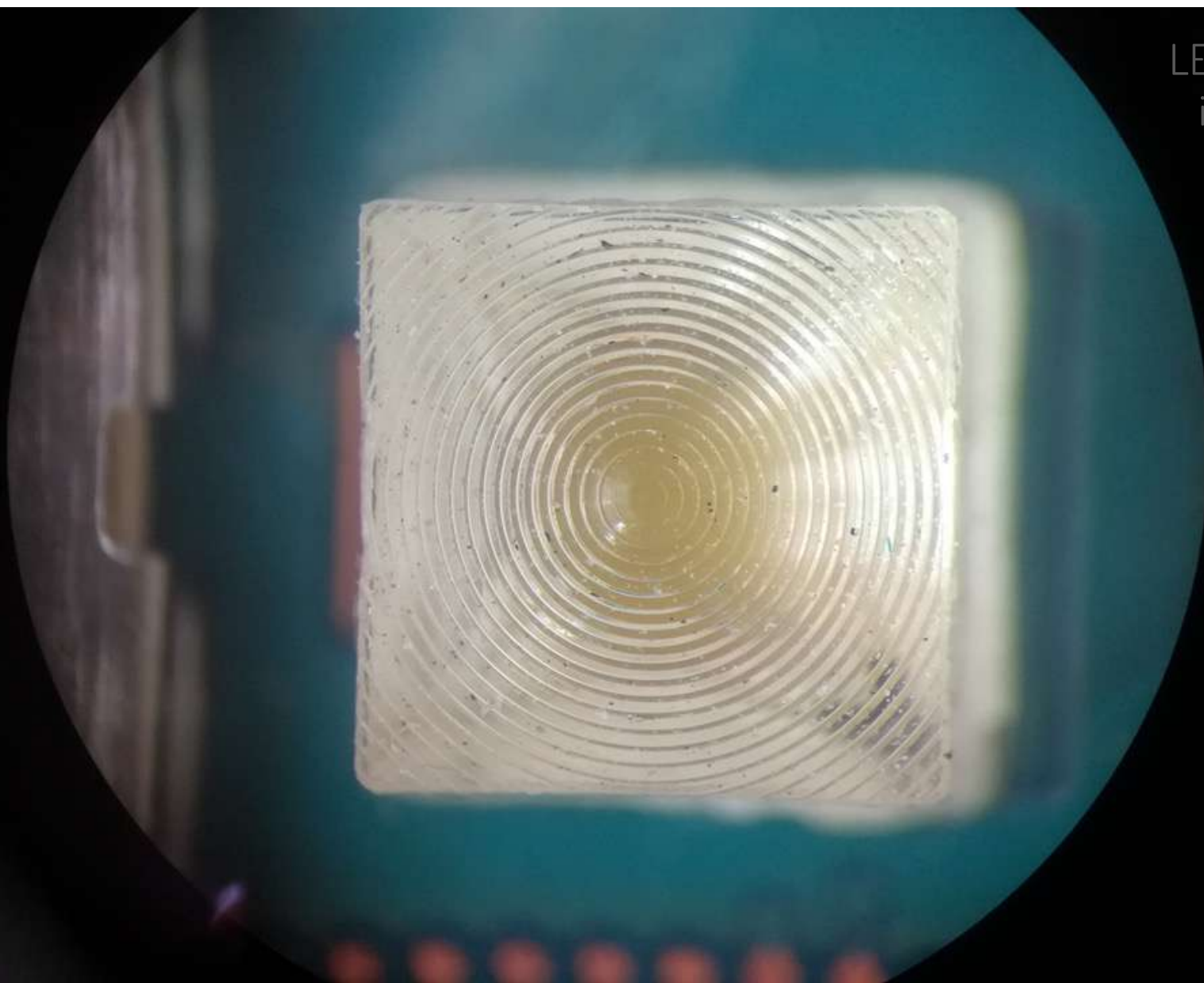
Lente di Fresnel

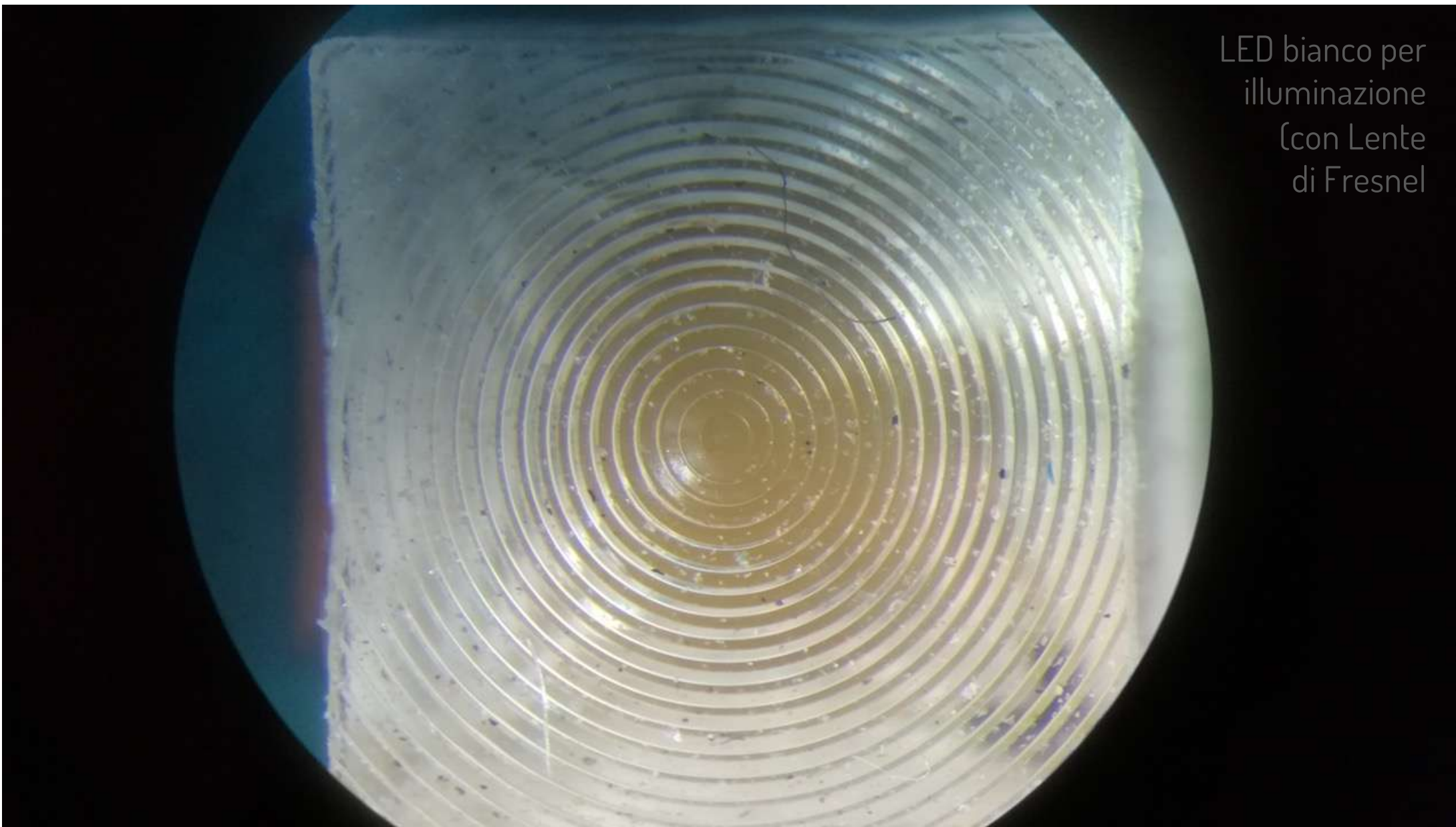
https://it.wikipedia.org/wiki/Lente_di_Fresnel

LED bianco per
illuminazione
(con Lente
di Fresnel



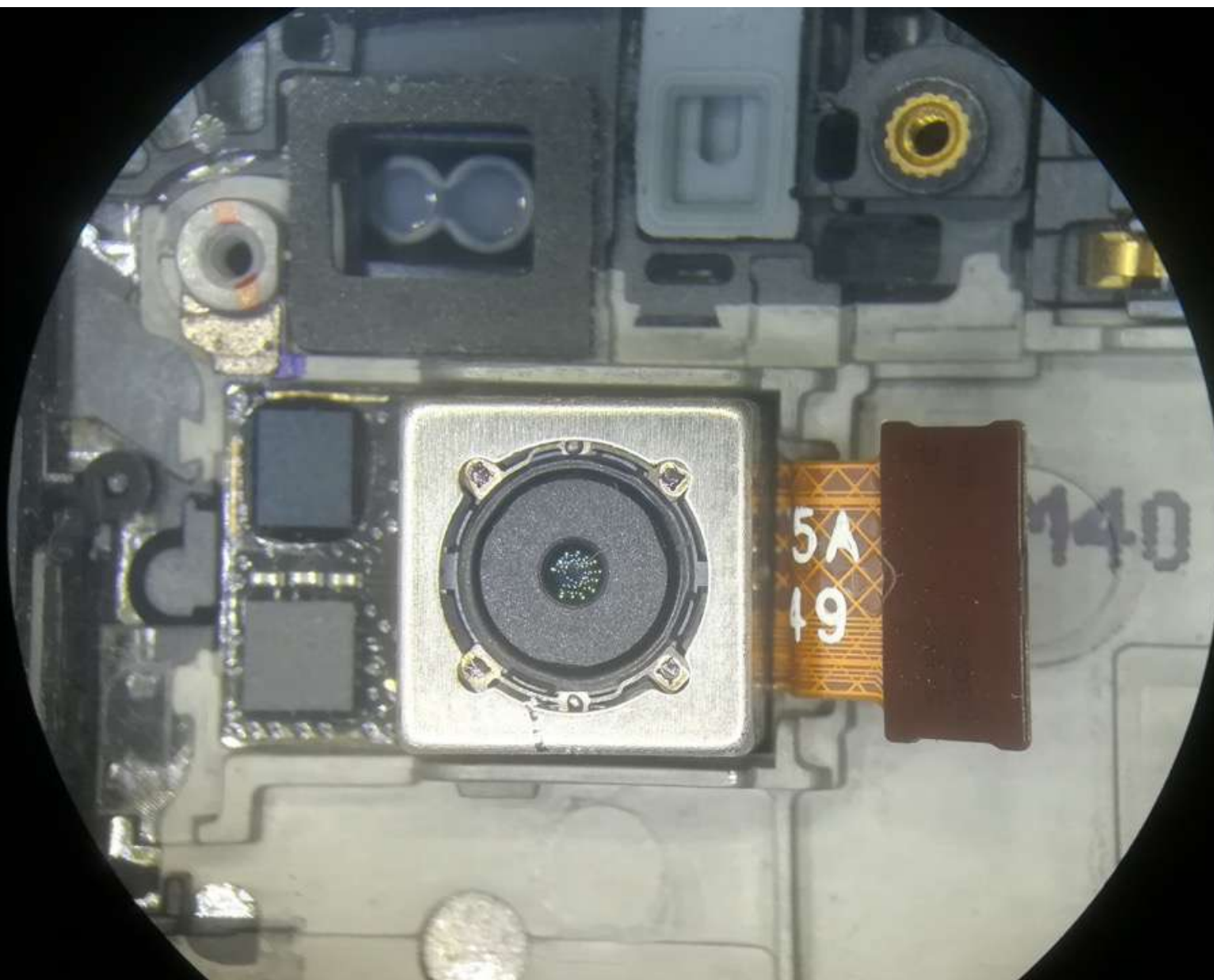
LED bianco per
illuminazione
(con Lente
di Fresnel



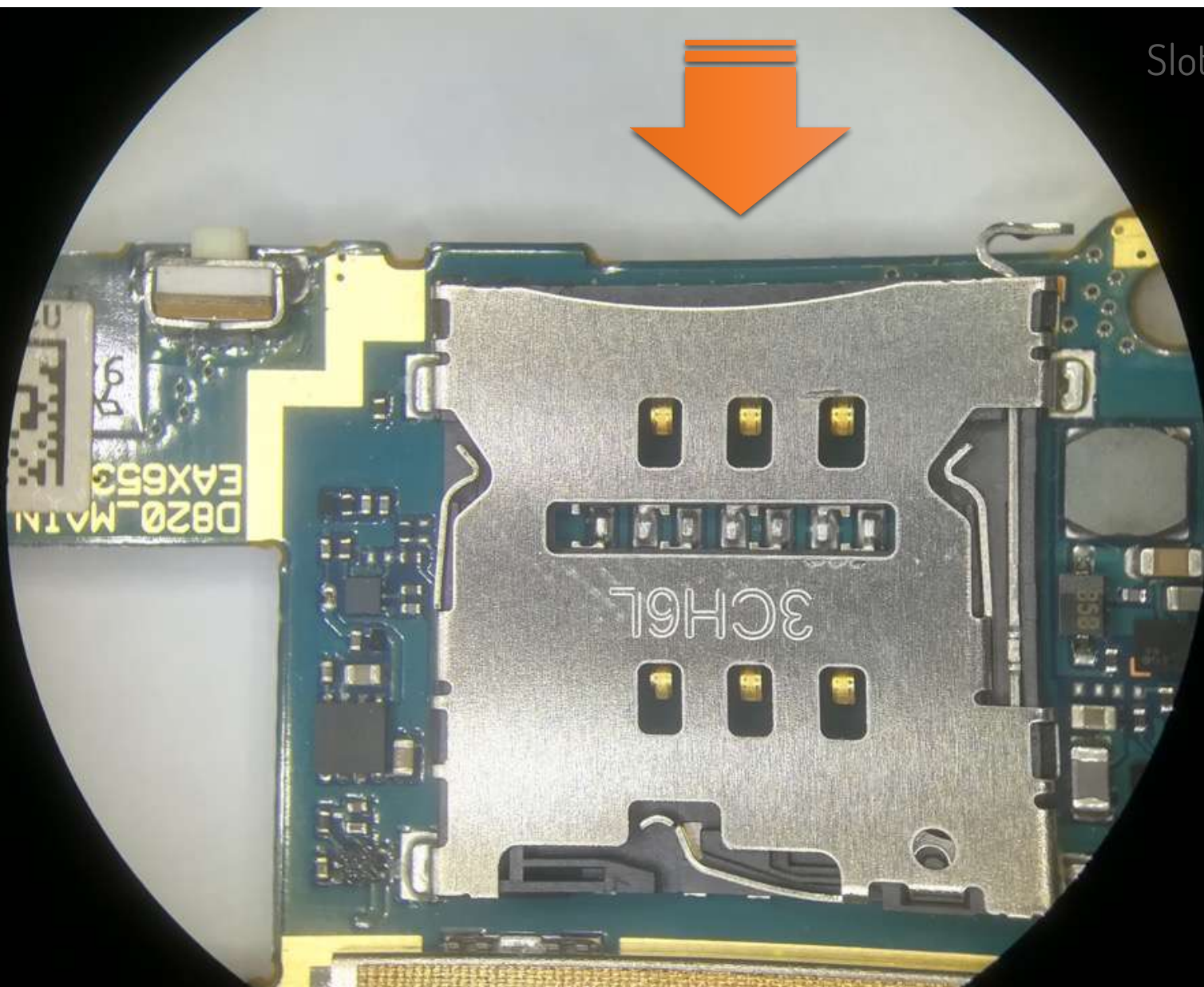


LED bianco per
illuminazione
(con Lente
di Fresnel

Telecamera
del cellulare



Slot per SIM card



Micro pulsante
elettrico laterale

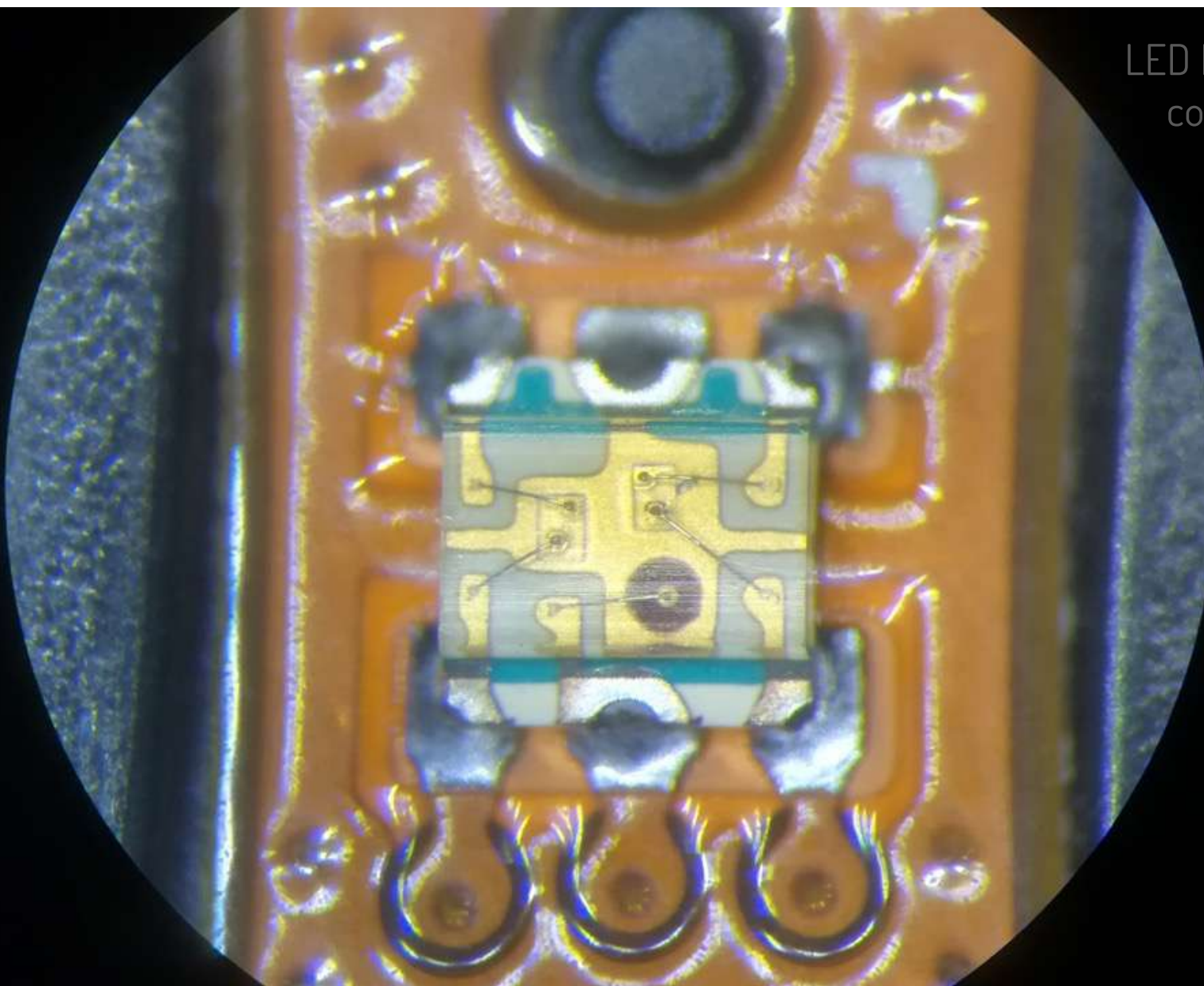


– Solo chiamate di emergenza

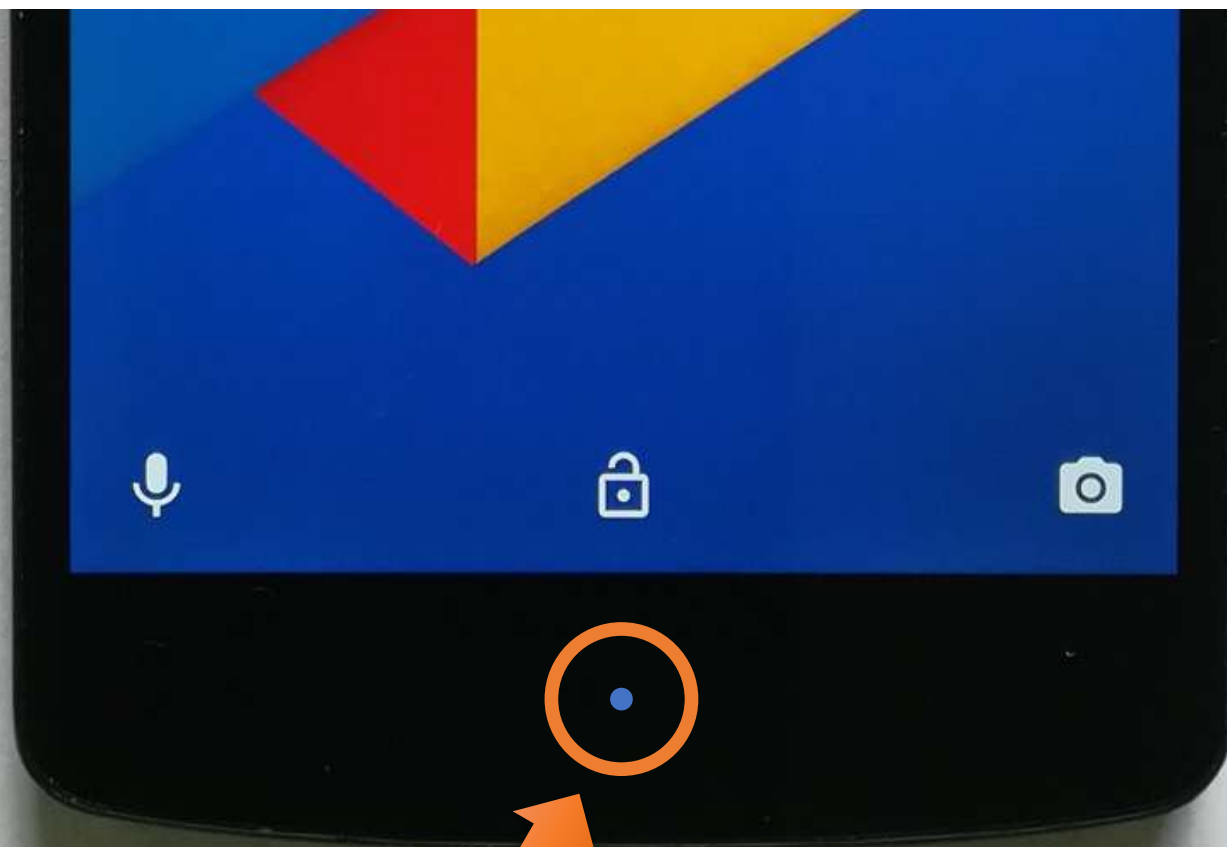


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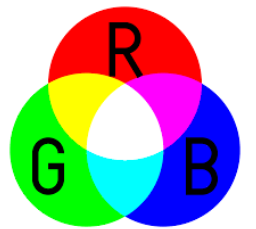
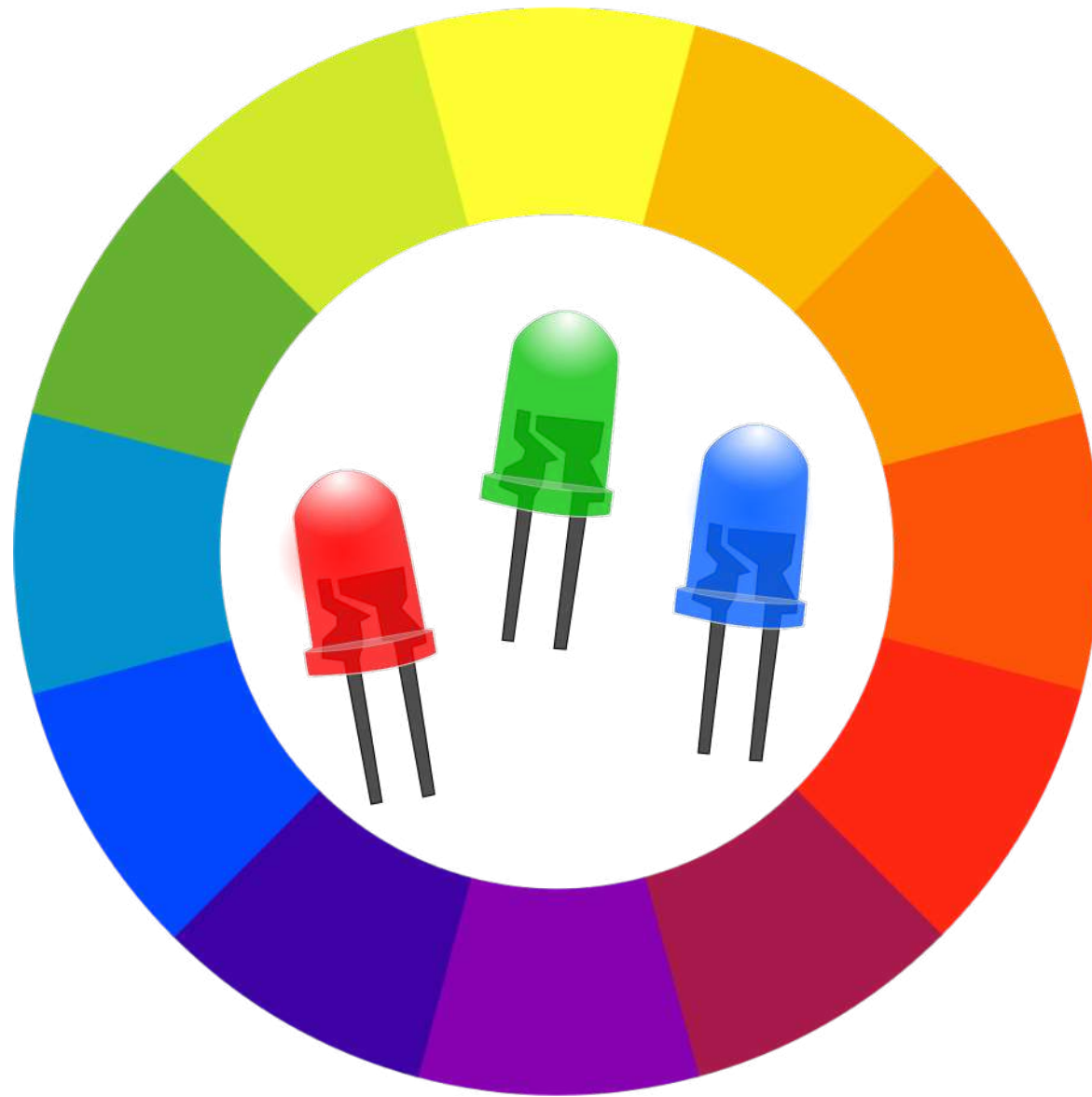




LED RGB multicolore
con fili d'oro per la
connessione
elettrica



Indicatore LED di stato



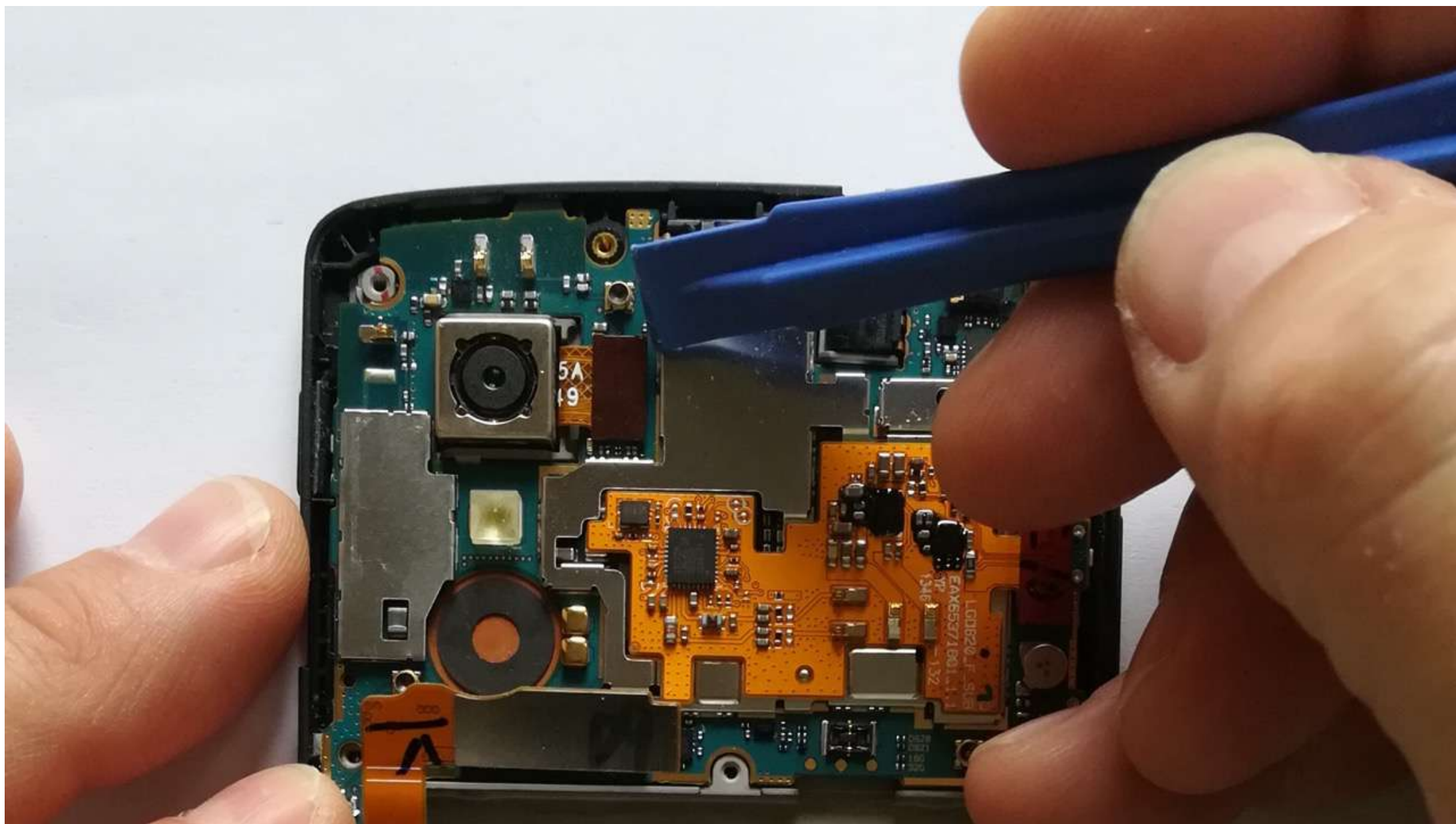
Procediamo...

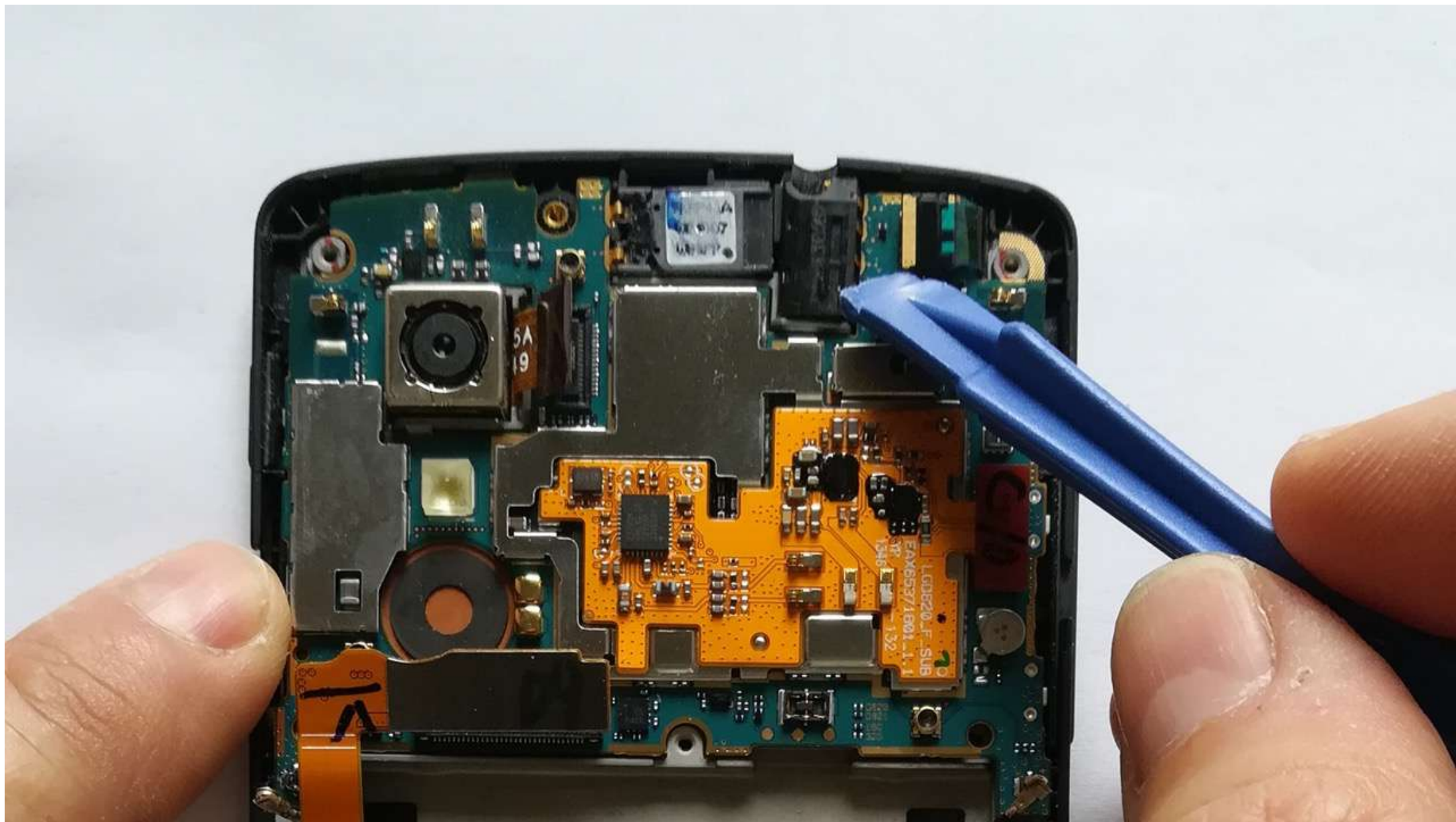


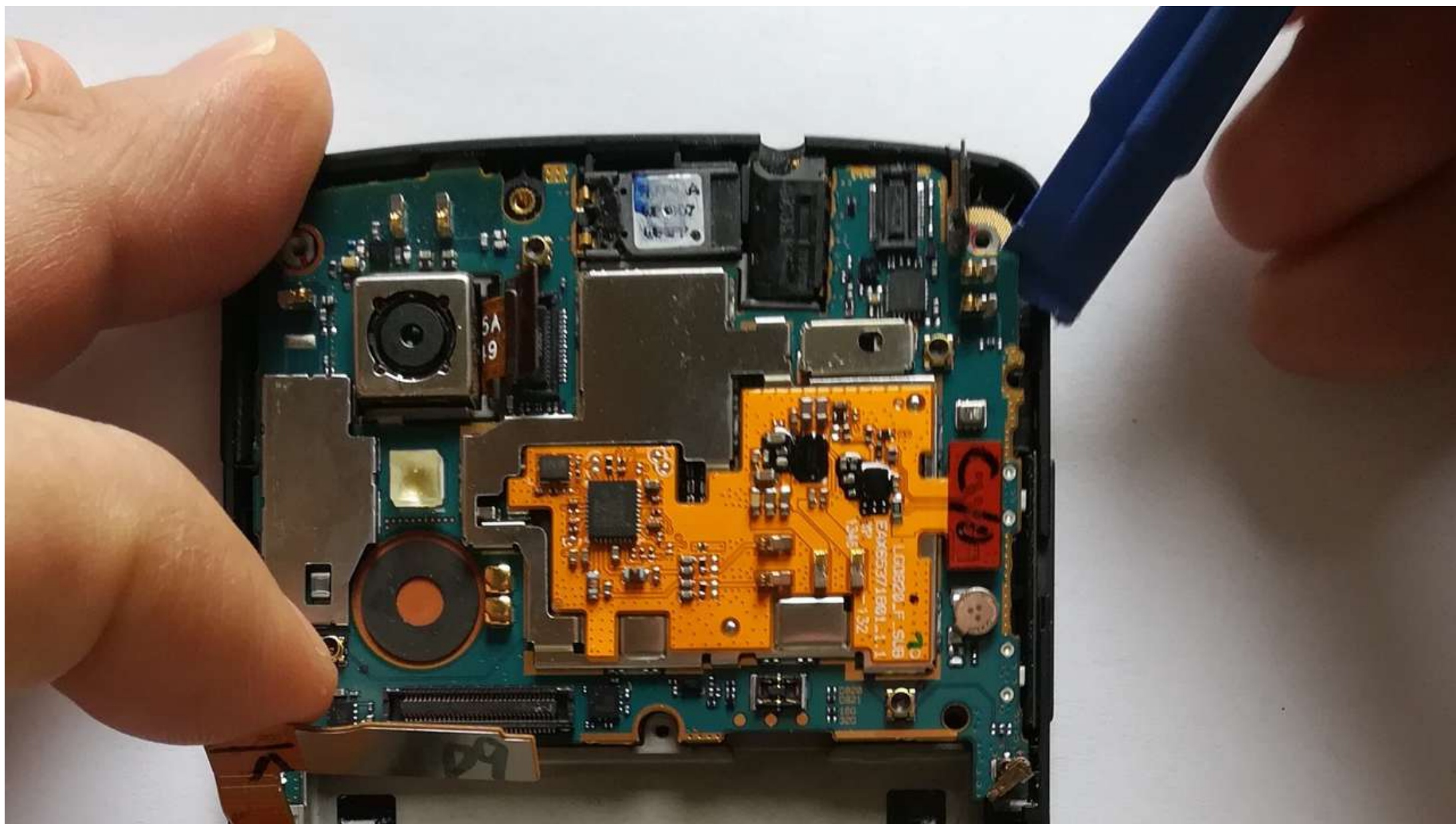


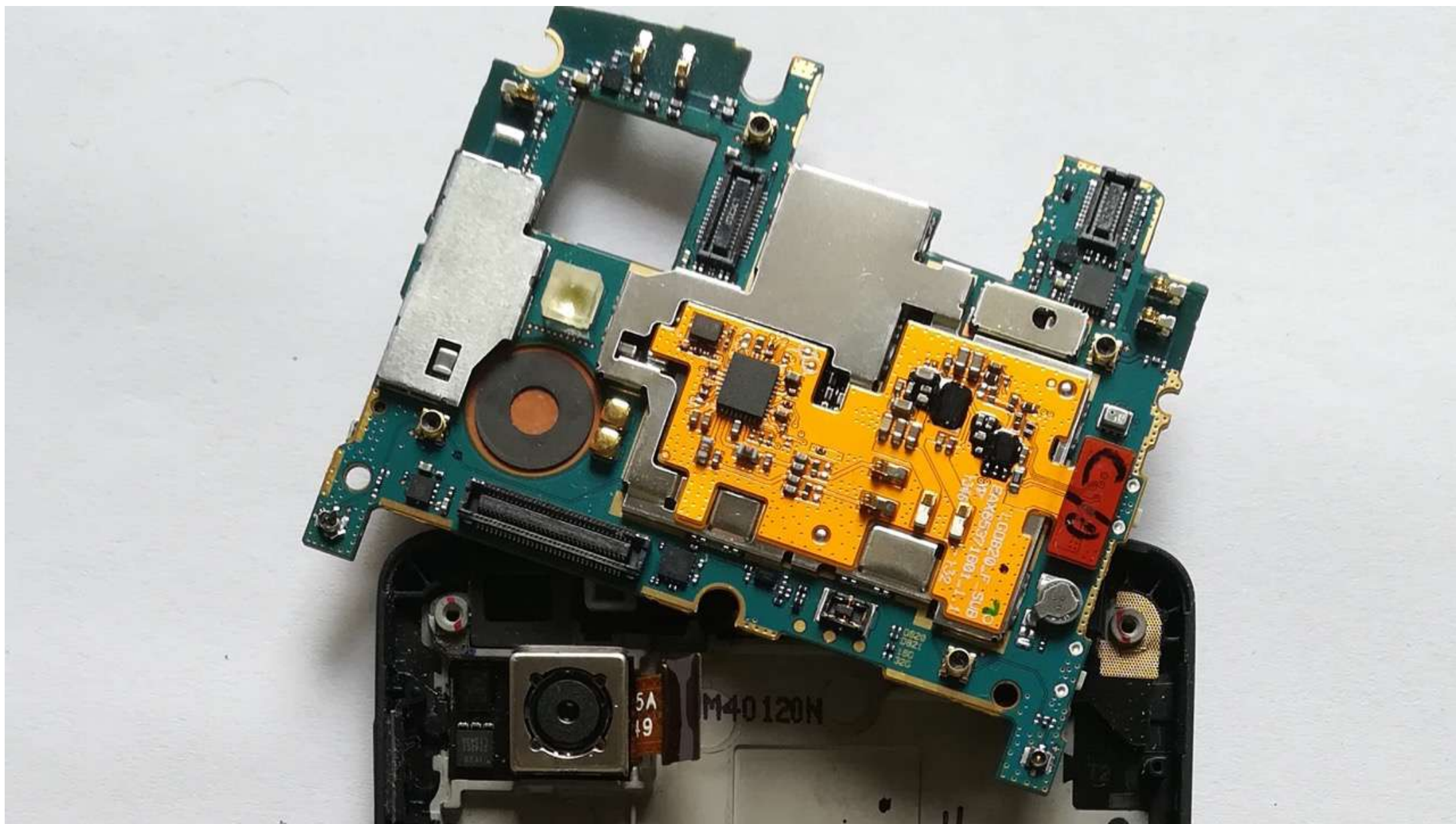


La mainboard del cellulare

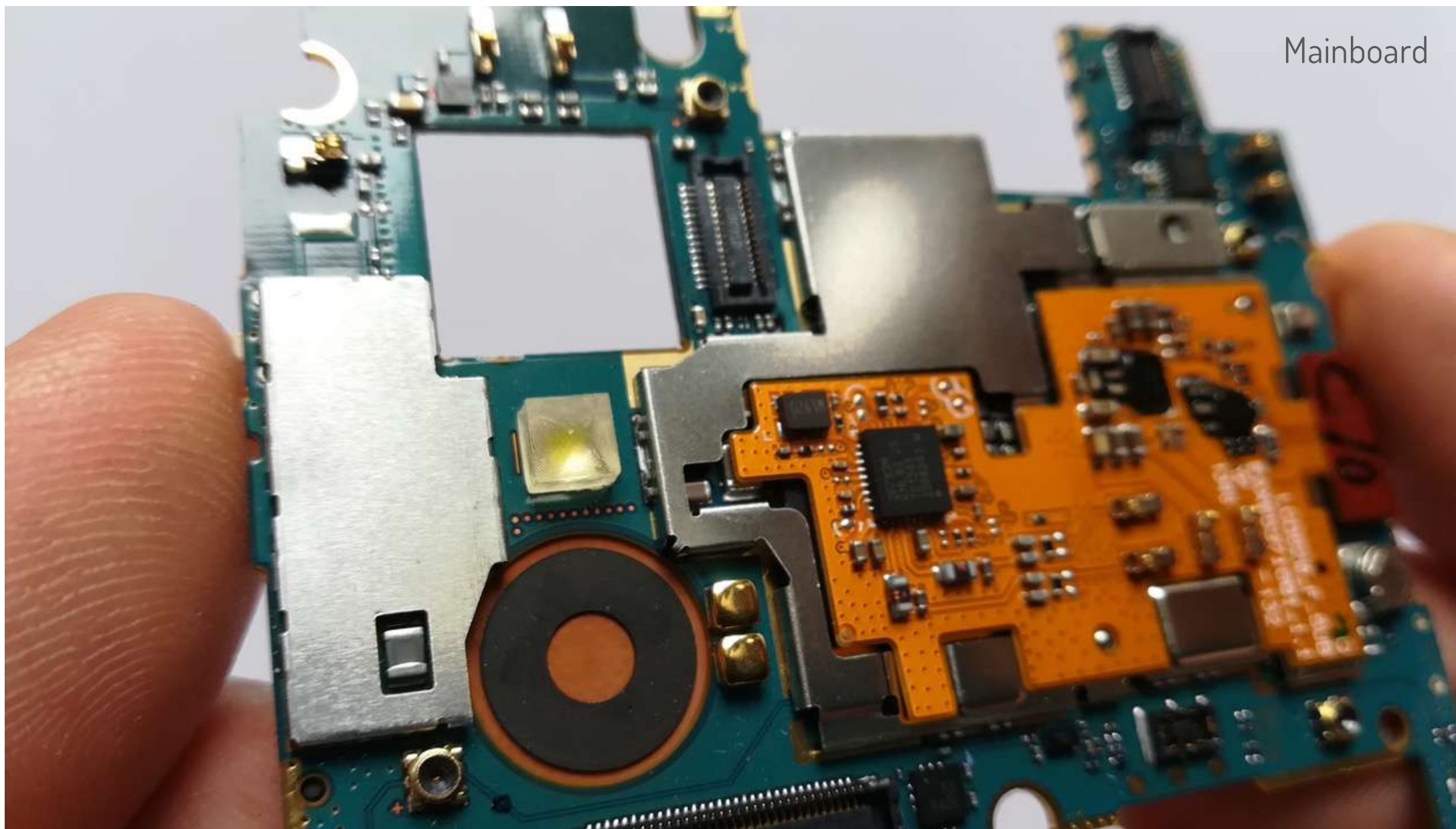




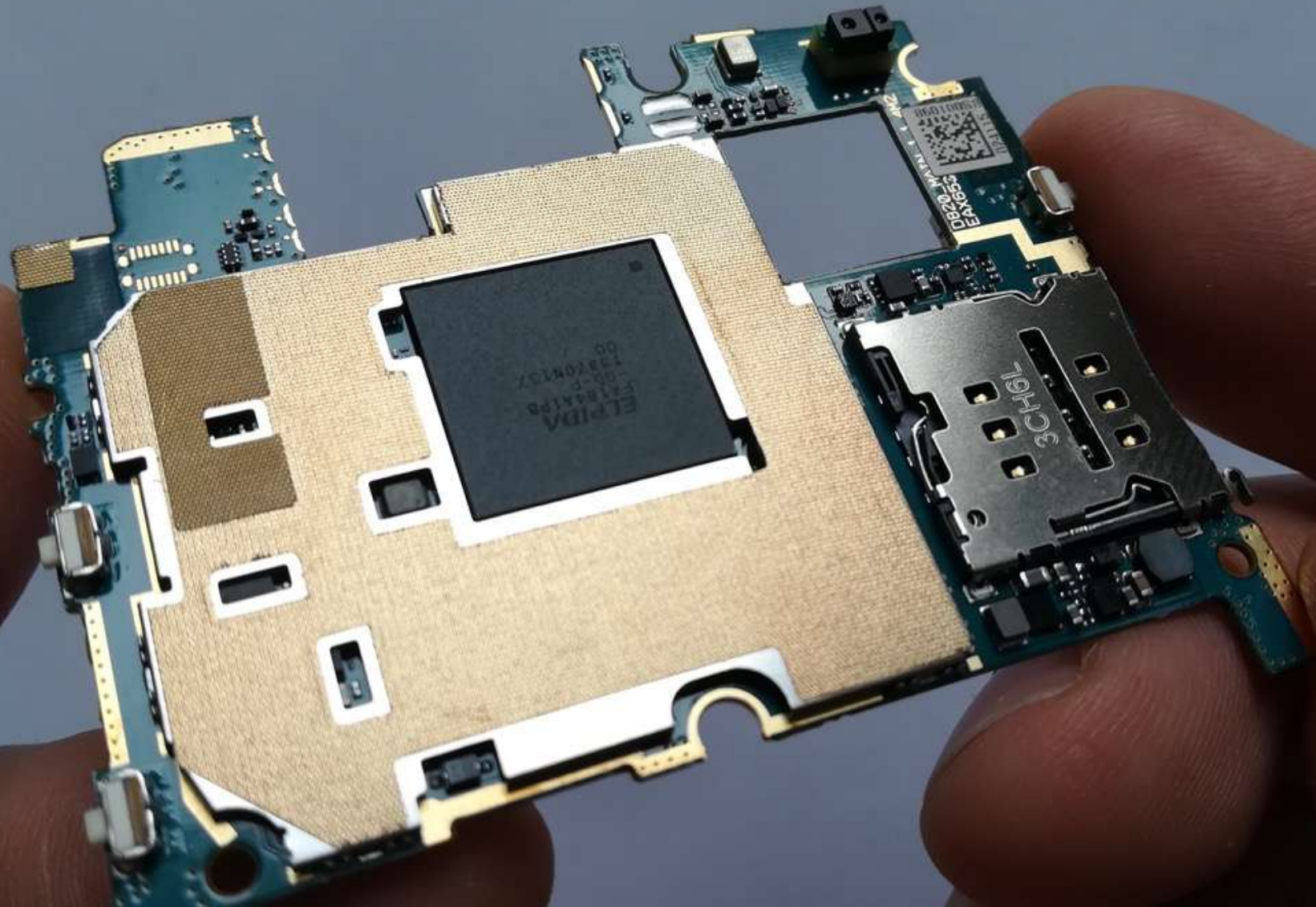


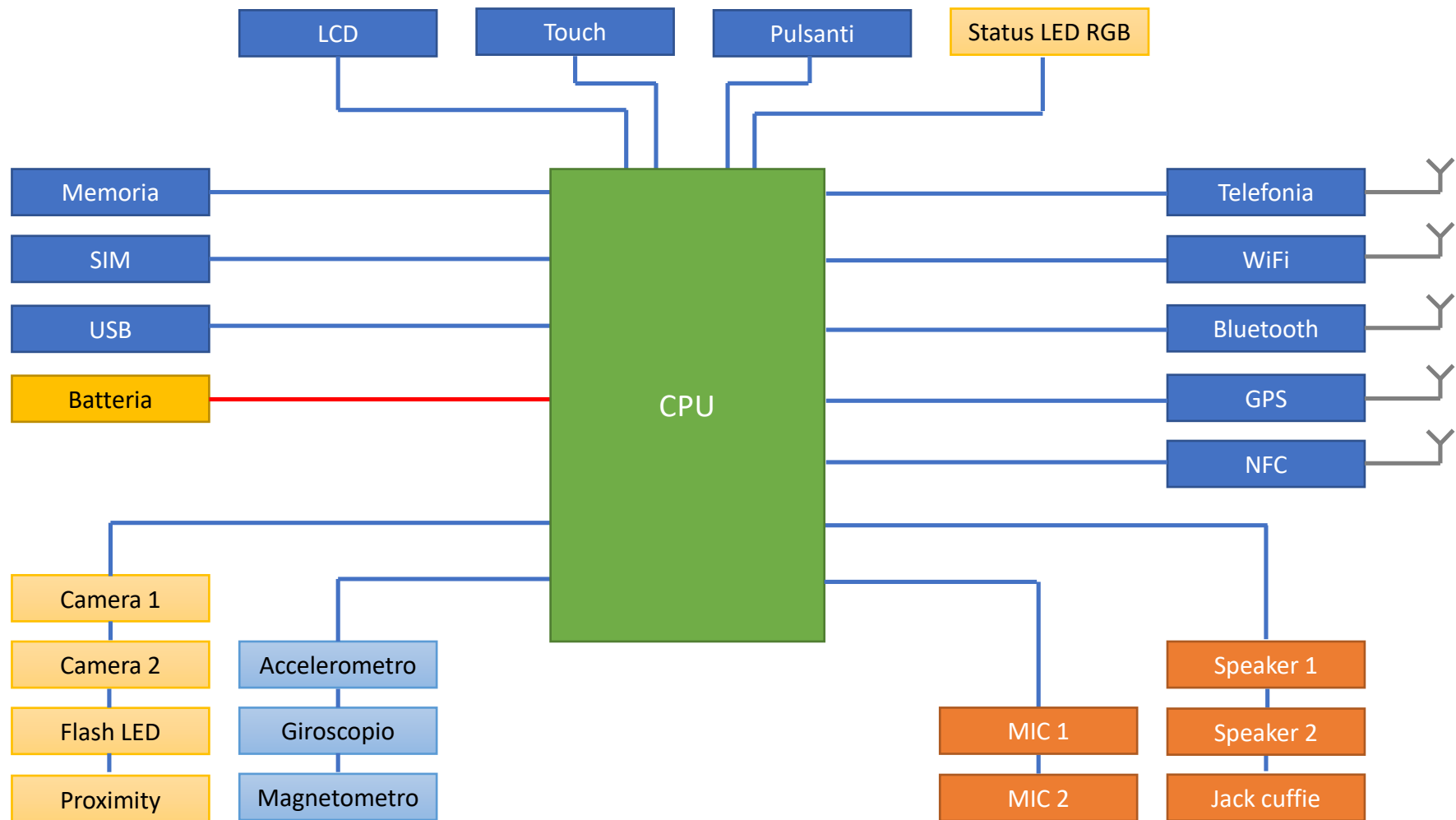


Mainboard

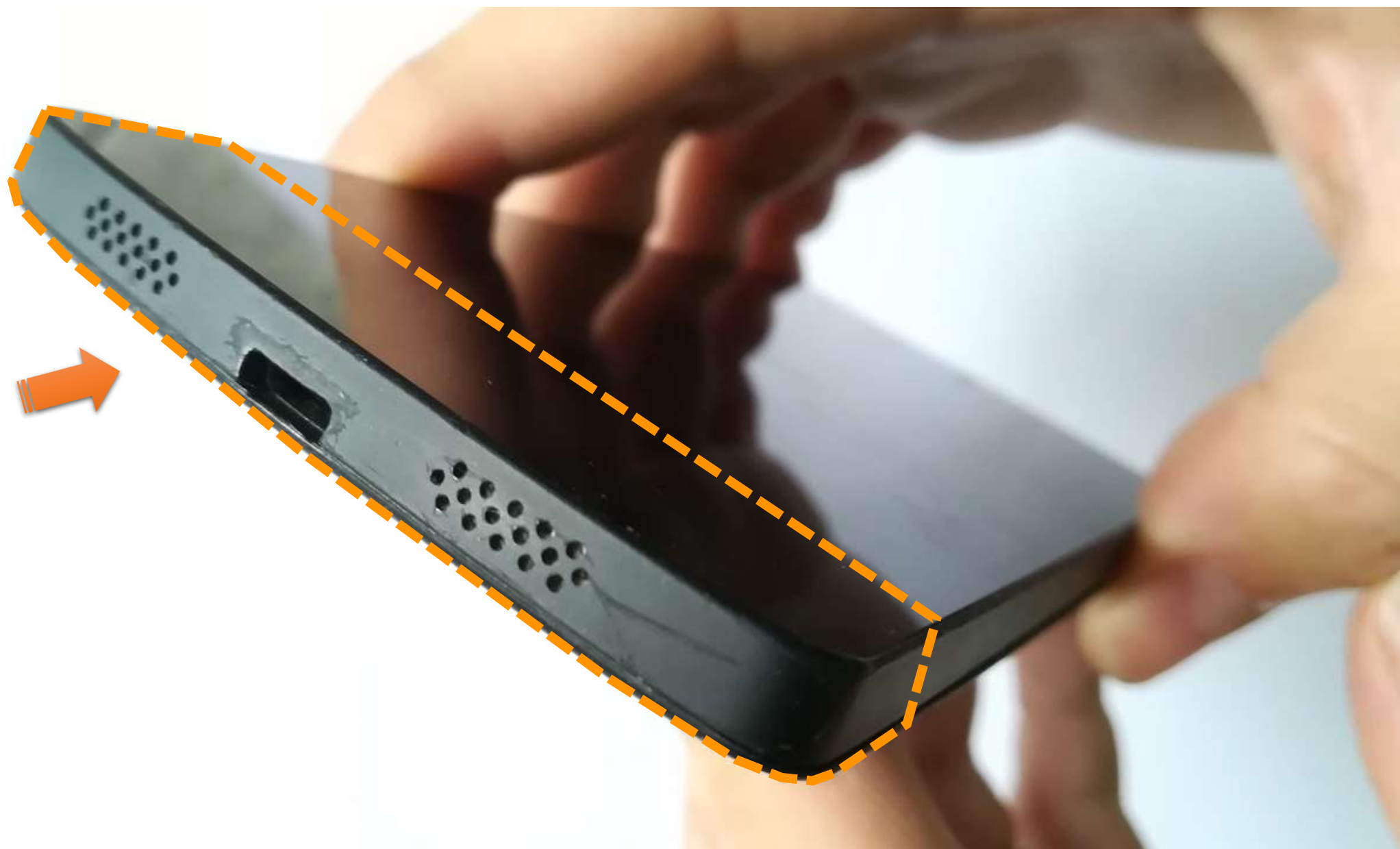


CPU





Altre periferiche



do not disassemble.
do not allow metal objects to contact or short
circuit the battery terminals.
do not incinerate or expose to fire.
do dispose of properly.
recycling number 1-800-822-8837

YU12126-13001

제조사 : TECHNOHILL (YANTAI)LTD
A/S 연락처 : 1544-7777

PRECAUCION

do not expose to high temperatures. 60°C (140°F)
do not disassemble.
do not leave metal objects in contact or short
circuit the battery terminals.
do not incinerate or expose to fire.
do dispose of properly.
recycling number 1-800-822-8837
Made in China / Fabricado na China / Fabricado en China

注意事项

- 仅可使用说明书指定的充电器
- 切勿随意拆开或投入火中、
水中或与金属品接触
- 避免放置于过热、潮湿或腐蚀性环境中
- 严禁短路，不可挤压或碰撞
充电限制电压：4.35V
执行标准：GB/T 18287-2000
乐金化学(南京)信息电子材料有限公司



生产日期: 2016.01.28<T>

P/N EAC62078701 LLL

HH_SKU_2.1224

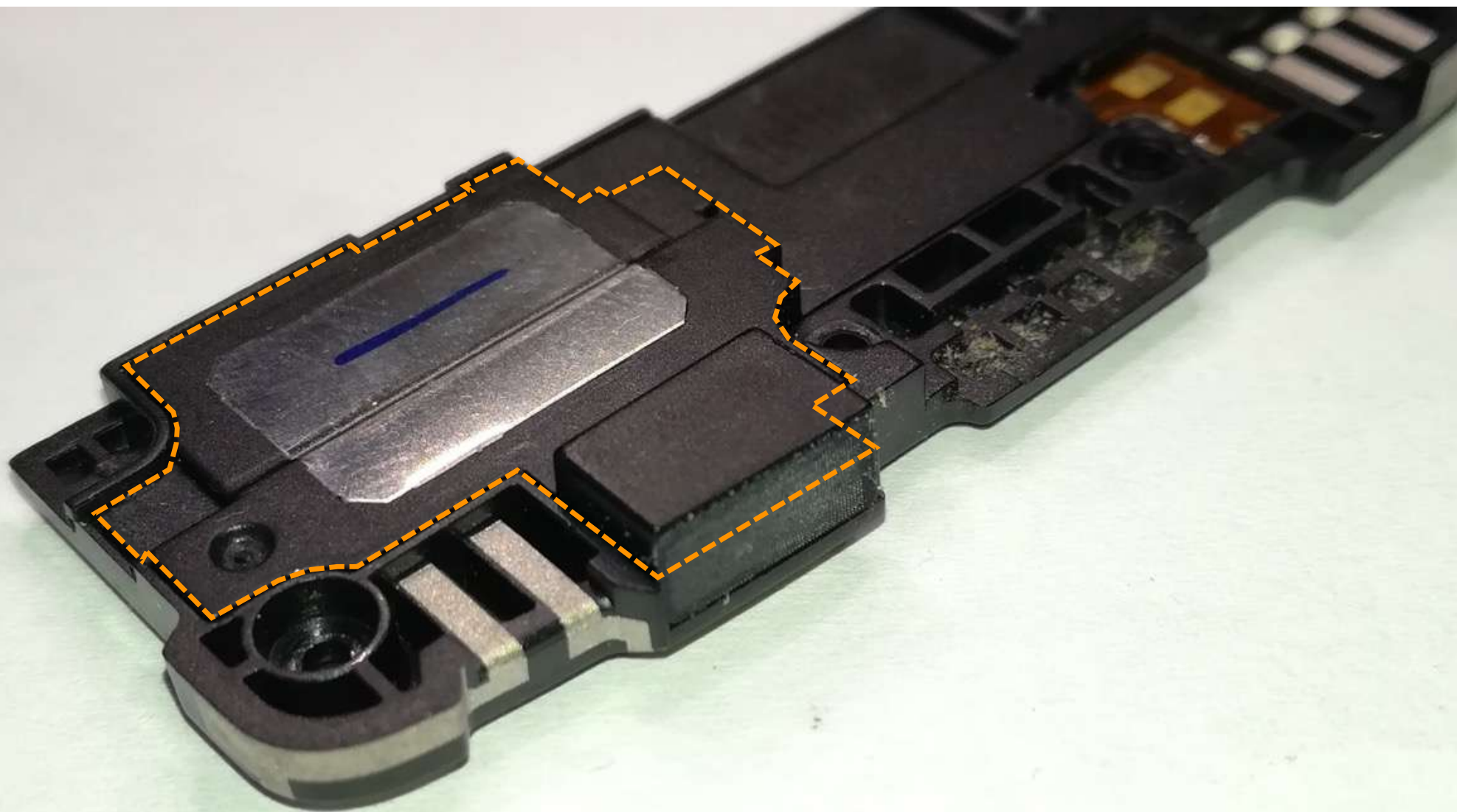






Antenne "stampate"
su plastica con
inchiostro conduttivo





La cassa di risonanza
amplifica il suono



Le corde producono il
suono della chitarra



Dal foro fuoriesce il
suono amplificato

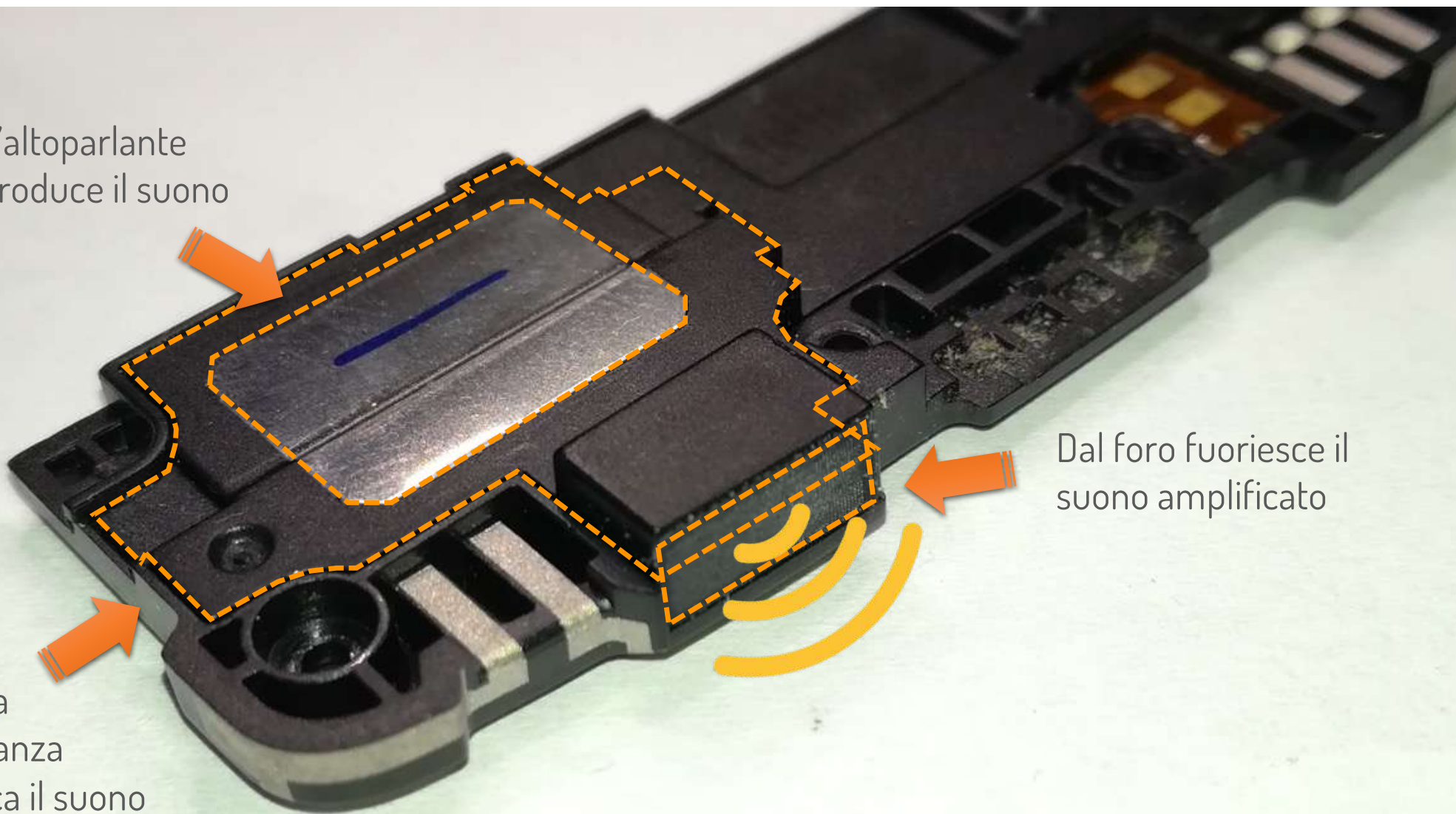


L'altoparlante
produce il suono

Dal foro fuoriesce il
suono amplificato

La cassa
di risonanza
amplifica il suono

Speaker di potenza



Il guscio "di plastica"

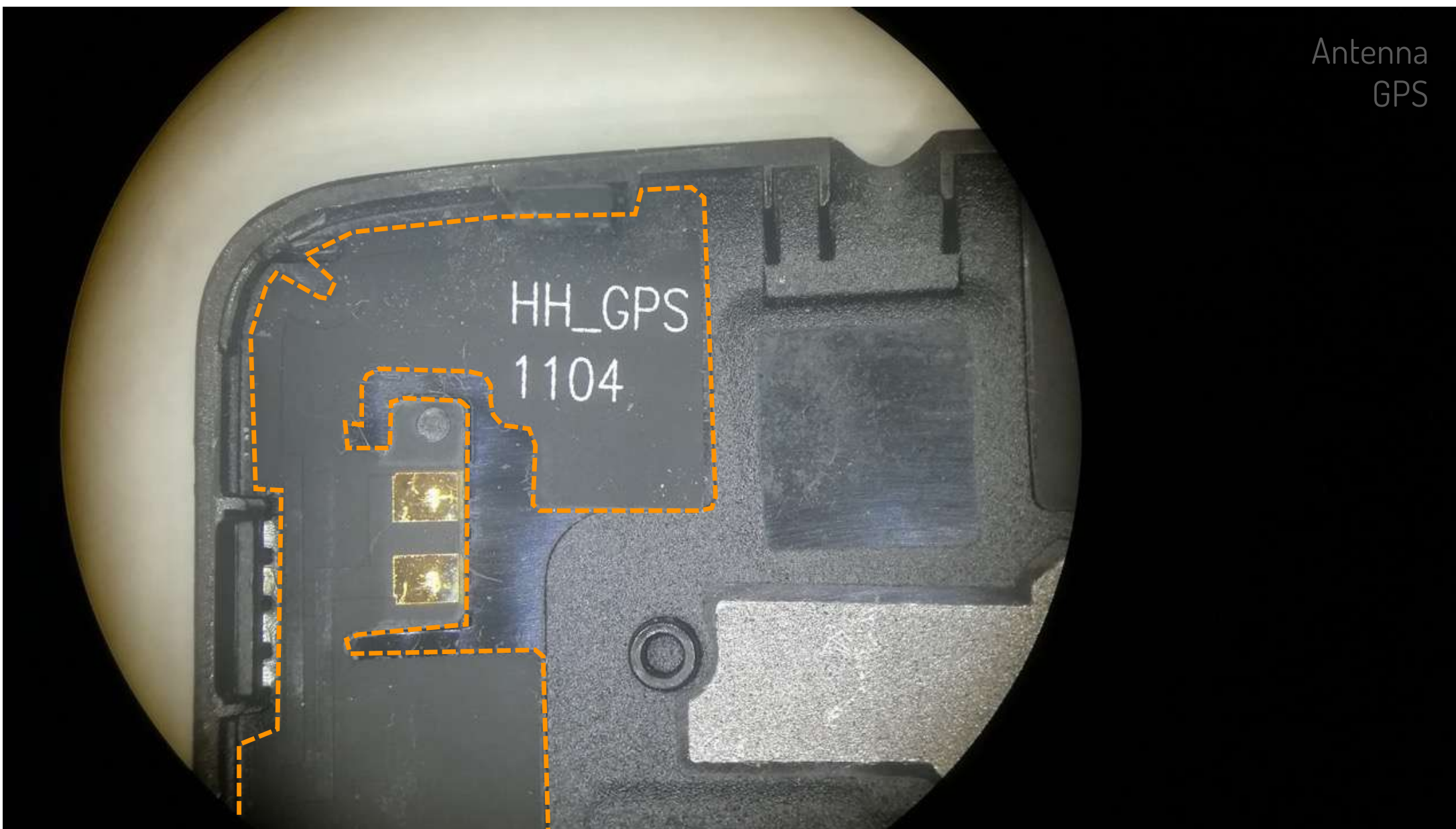
Guscio posteriore





Motorino eccentrico
per la vibrazione
e lente di Fresnel

Antenna
GPS



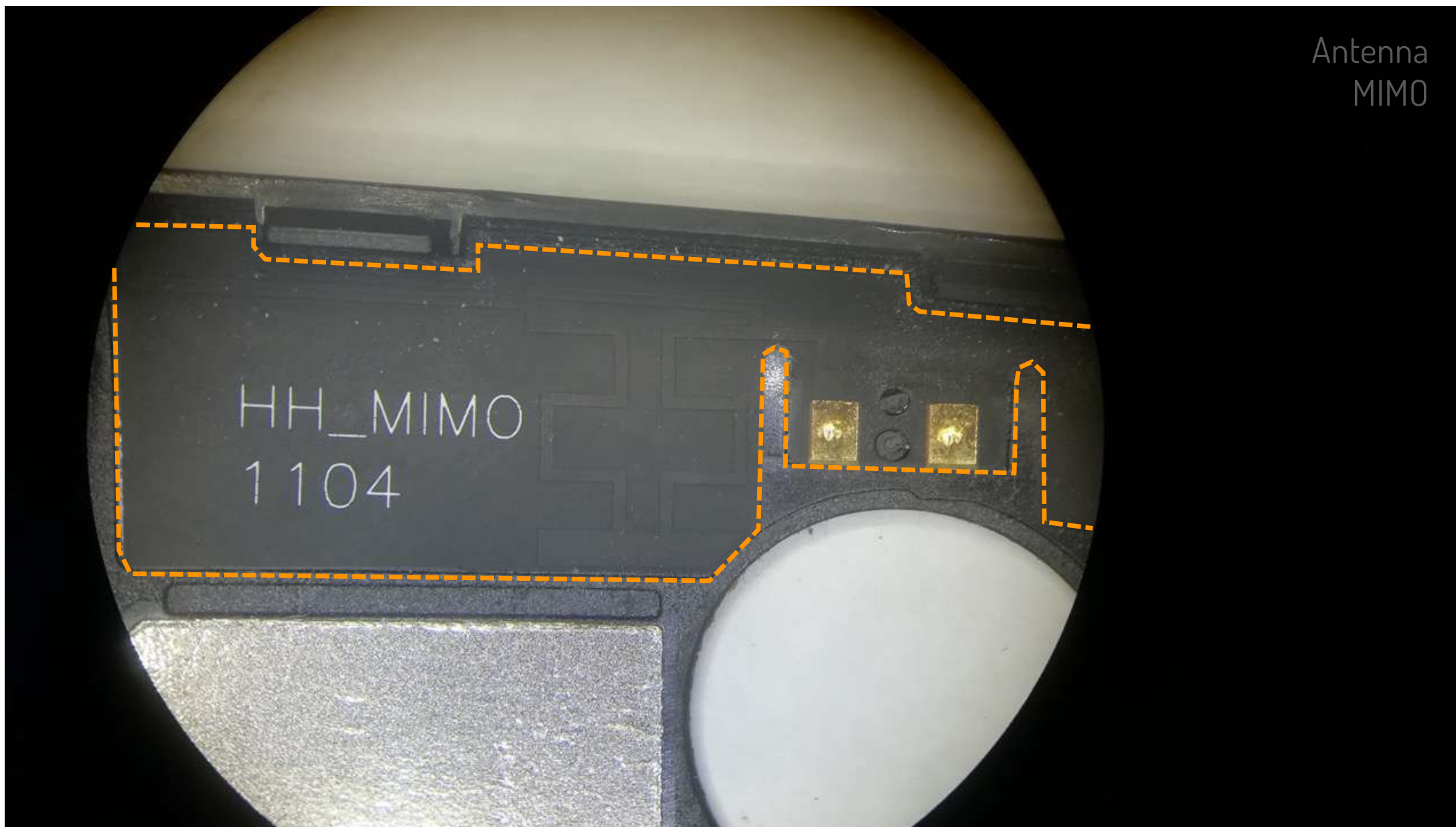
Antenna
Bluetooth e WiFi

HH
BT/WIFI
1218



Antenna
MIMO

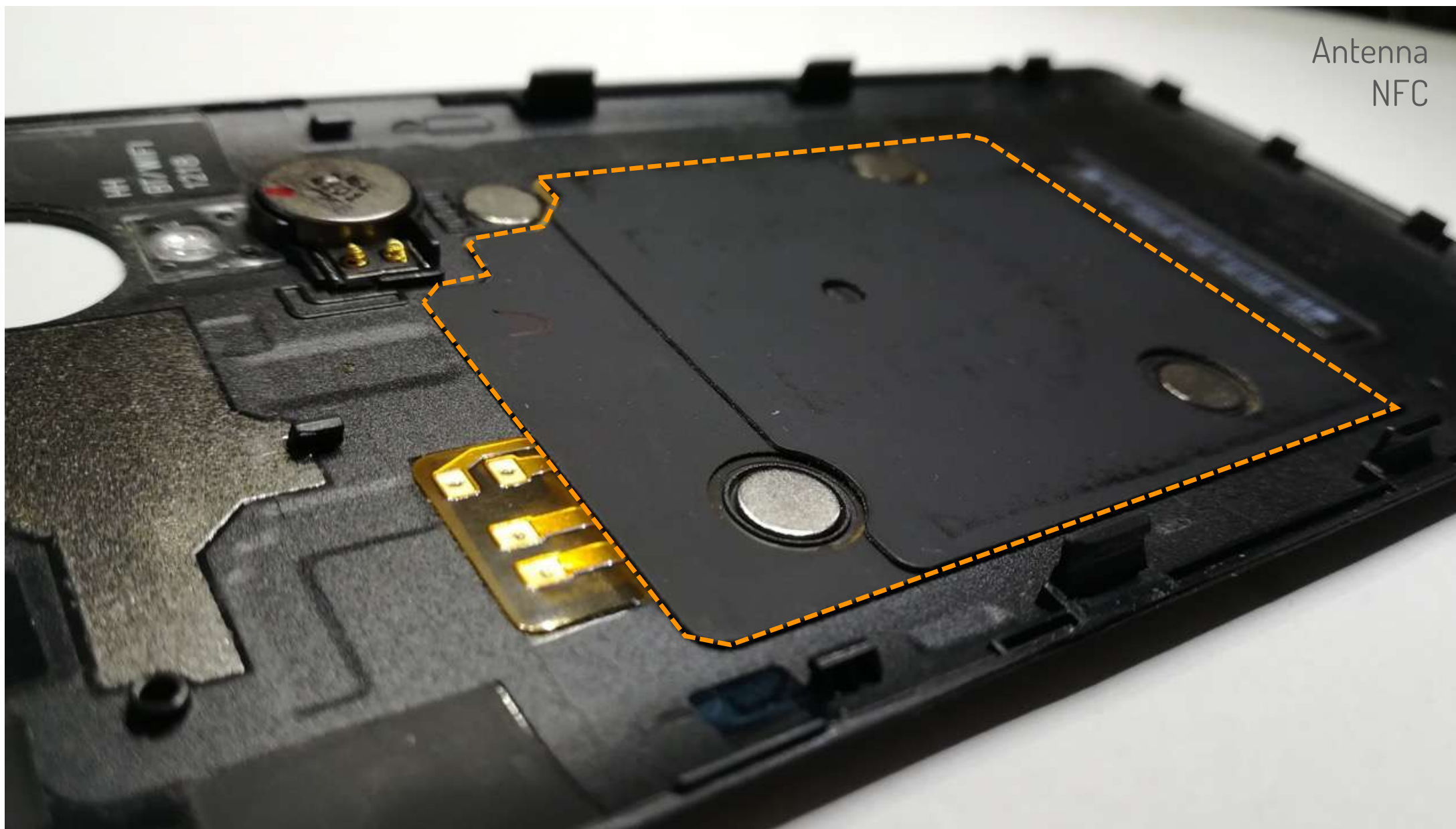
HH_MIMO
1104



Antenna
NFC



Antenna
NFC



Cod. 650

GTT
GRUPPO TORINESE TRASPORTI

 REGIONE
PIEMONTE



ticket
biglietto 
MultiCity*

urbano+
suburbano
urban+suburban



6
CITY

Antenna



Cod. 650

GTT
GRUPPO TORINESE TRASPORTI



ticket
biglietto
MultiCity*

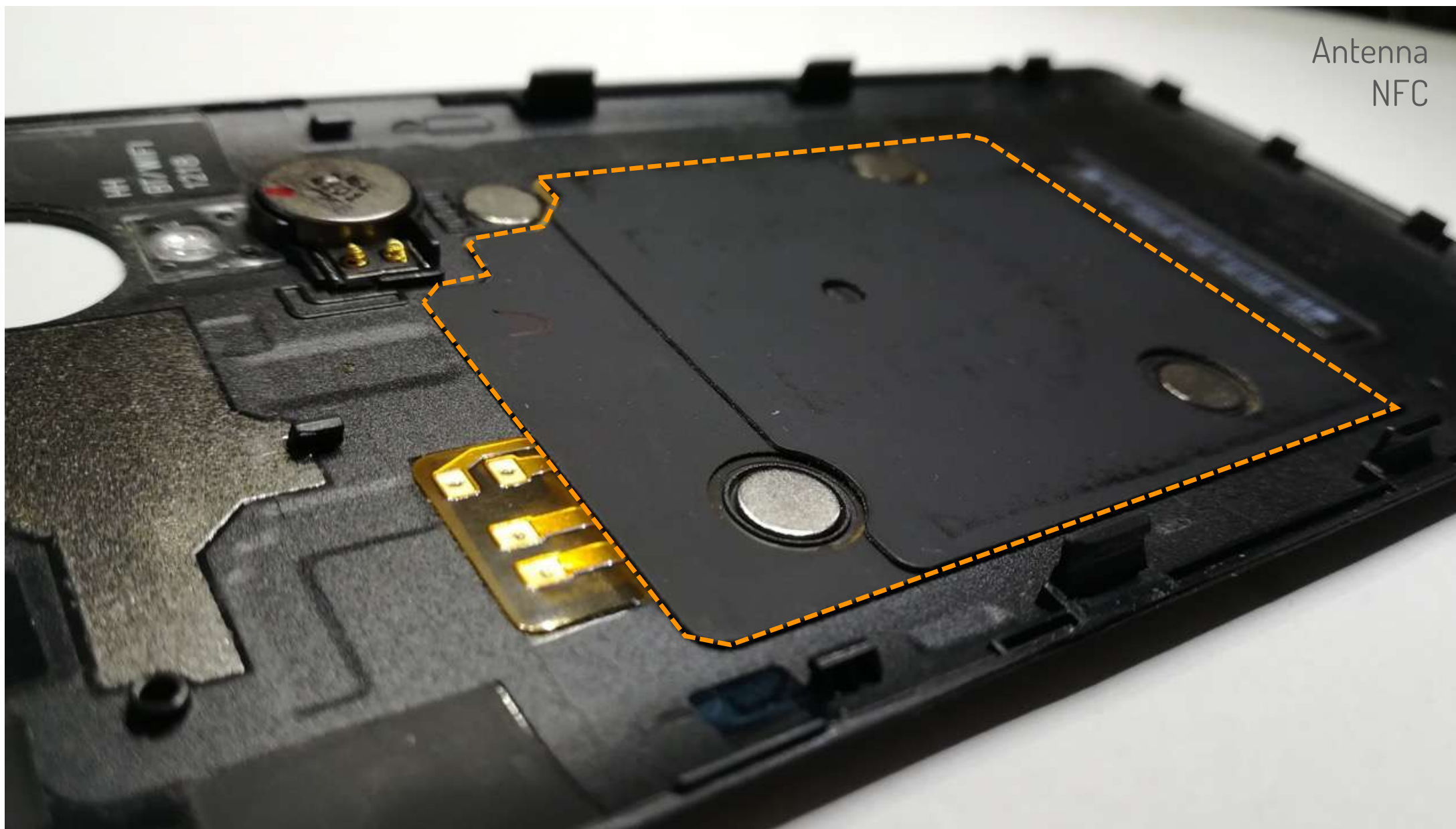
Microcontrollore



urbano+
suburbano
urban+suburban

6
CITY

Antenna
NFC



Curiosità



1979

2020

f

GRAZIE.

flavio.renga@fondazione scuola.it

www.riconessioni.it