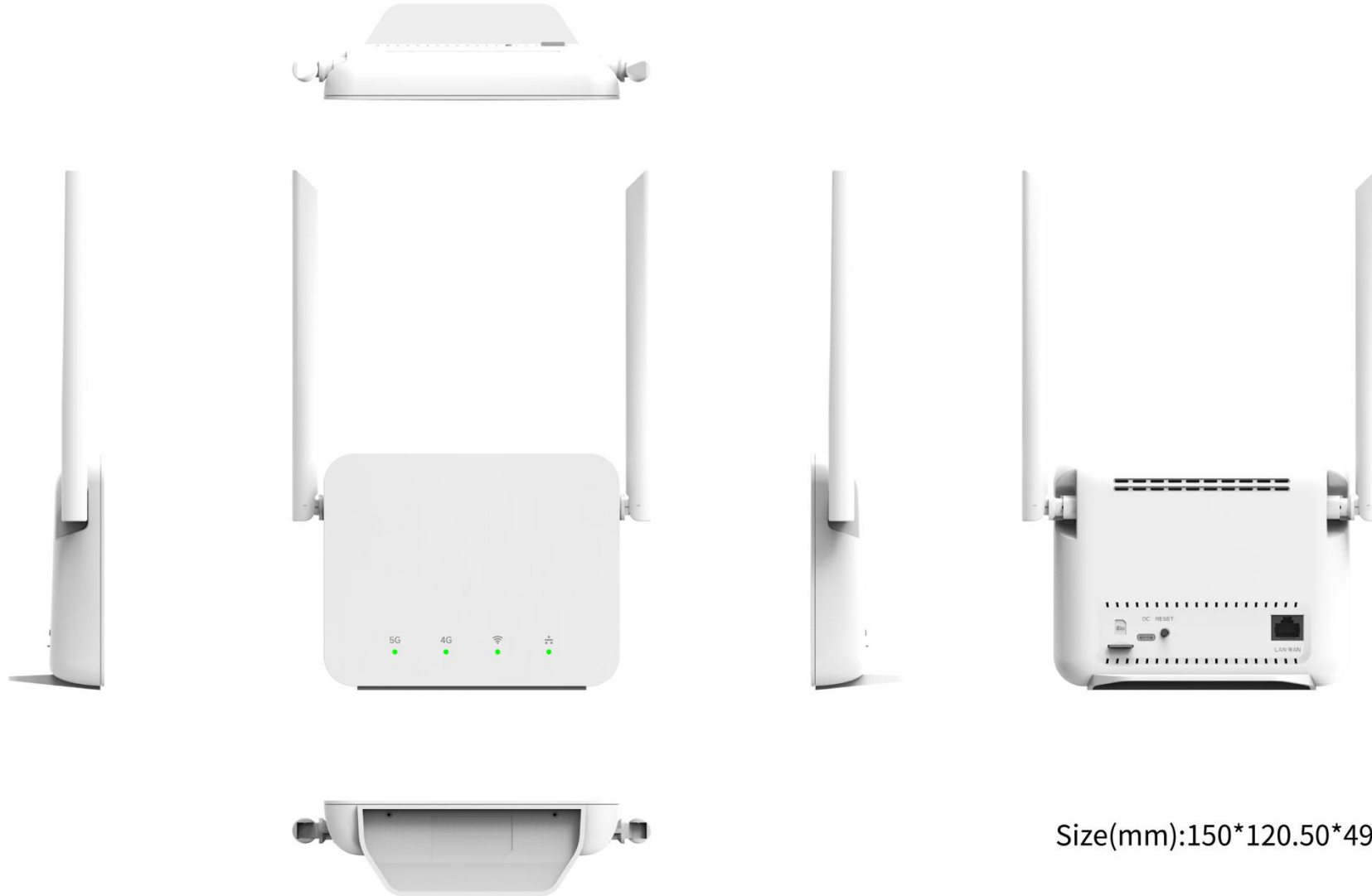




5G Redcap CPE --RF31 (Vertical Type)



Size(mm):150*120.50*49

5G Redcap Technology Outline

5G Redcap is tailored from 5G(NR), inherit the advantageous features of 5G NR, to gain affordable cost、 low-power consumption、 moderate data rate、 maintain compatibility and extensibility, e.g.

- Reduce spectrum bandwidth
- Reduce the number of transmitting and receiving antennas
- Reduce the modulation order
- Reduce the complexity of the protocol stack



Meanwhile, compared with 4G LTE, 5G RedCap shows significant advantages to serve users:

- Higher data rate, serve scenarios like high-definition video surveillance、 fast transfer of large files
- Lower latency response, support applications like industrial automation、 intelligent transportation
- Stronger device connectivity, promote the development like smart home、 smart cities
- Lower power consumption, suitable for power-sensitive IoT devices like smart watches、 wearable health monitor
- Better network slicing, provide customized network services for different types of businesses

5G Redcap CPE --PDF3i

INTERFACE

SIM	• 3FF SIM x 1(Slot) + 5x6 ESIM x3
Display	• LED(5G x1 / 4G x1 / Wifi x1 /LAN x1)
LAN port	• 1 * RJ45 10/100M
Button	• Reset x 1
Voice	• NA

STRUCTURE

Size	• refer to ID picture
Weight	• TBD
Temperature	• Operating temperature : 0 ⁰ C ~ 40 ⁰ C • Storage temperature: -20 ⁰ C ~ 60 ⁰ C
Humidness	• 5% ~ 95%(noncondensing)

HARDWARE

Core Chip	• ASR 1903SR
WIFI frequency	• 2412~2484 MHz (Channel 1-13)
WIFI standard	• 802.11 b/g/n/ax;
WIFI Safe mode	• WPA2,WPA2-WPA

RF FEATURE

Standard	• 3GPP R17 • 3GPP R9
Rate class	• NR-FDD: DL: 226 Mbps / UL: 112 Mbps • NR-TDD: DL: 140 Mbps / UL: 30 Mbps • LTE-TDD: DL: 112 Mbps / UL: 10 Mbps • LTE-FDD: DL: 150 Mbps / UL: 50 Mbps
Frequency	• 5G Redcap: N1/N3/N5/N8/N28/N41/N78/N79(customized) • LTE-TDD: B34/B38/B39/B40/B41 customized) • LTE-FDD: B1/B3/B5/B8 (customized)
Output power	• 23±3 dBm
Modulation	• DL: QPSK / 16QAM / 64QAM / 256QAM • UP: QPSK / 16QAM / 64QAM / 256QAM
Sensitivity	• NR-TDD/TDD-LTE :-94 dBm(20MHZ) • NR-FDD /FDD-LTE :-93 dBm(20MHZ)
LTE Antenna	• MIMO 2*2

CERTIFICATION/PACKAGING LIST

CE	• Support
Device	• x 1
Power Adaptor	• TypeC 5V/2A (Optional)
LAN Cable	• x 1