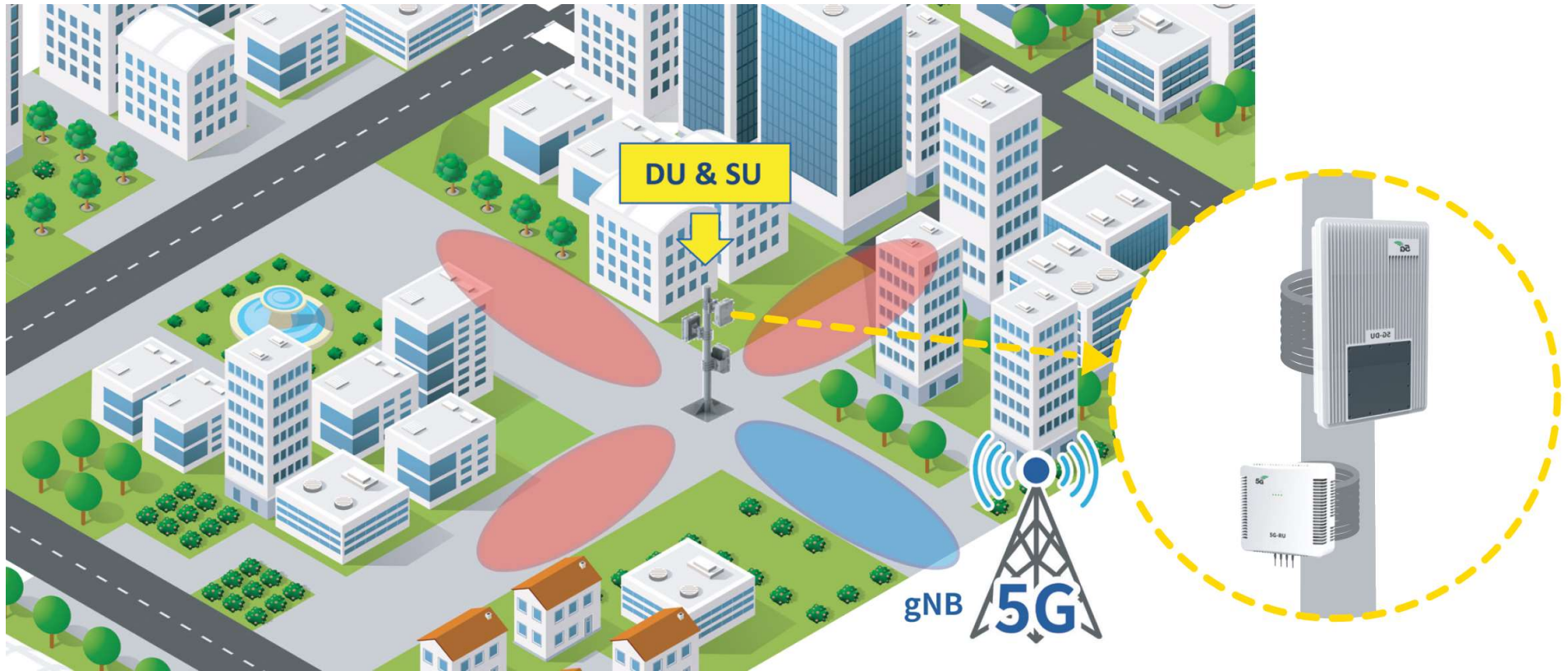

mmWave RF Repeater (28GHz)

mmWave(28GHz) off-air repeater

■ TOPOLOGY



mmWave(28GHz) off-air repeater

■ Product appearance and features



DU (Donor Unit)

- Out-door use (IP66)
- Built-in PSU
- W*H*D = 280*440*96 [mm]



RU or SU (Radio or Service Unit)

- Indoor use (IP50)
- AC-DC adapter
- W*H*D = 260*260*98 [mm]

mmWave off-the-air Repeater

- 28GHz band defined in 3GPP standard n261
- Up to 850MHz of total bandwidth
- Flexible channel bandwidth (50M/100M/200M/400M)
- Automatic service channel selection

Demodulation

- TDD sync acquisition directly from downlink RF input

Low latency (<0.5usec)

System configuration

- DU:RU=1:4
- DU:HU:RU=1:4:32

2T2R MIMO

mmWave(28GHz) off-air repeater

■ Specifications

Item	Specification
3GPP Band	n261
Frequency Range (UL/DL)	27.500 GHz ~ 28.350 GHz
Bandwidth	850MHz
Channel Bandwidth	50 /100 /200 /400 MHz
Linear Gain (UL/DL)	100 /100dB
Maximum Output Power (UL/DL)	23 /23dBm@RF port, 35 /35dBm@EIRP
ACLR	>35dBc
EVM	<3.5%
System Delay	<0.5usec
Spurious Emission	FCC rule compliant
VSWR	1.5 : 1
Noise Figure	<7dB @ UL max gain, DU:RU=1:1
Antenna Gain	12dBi@DU, 12dBi@RU
Air Interface	2*2 MIMO
Type Of Power Supply	Built-in PSU@DU, AC-DC adaptor@RU
System DC Power Consumption	TBD
Dimension(W*H*D)	273 *437 *95.6[mm]@DU, 259 *258.5 *97.5[mm]@RU
Weight	8kg typ.@DU, 5kg typ.@RU