

2.6G+2.3G+1.8G 8T8R ORAN RRU

Introduction

In the 5G era, indoor networks will face many challenges such as capacity, coverage, operation and maintenance. Compared with traditional indoor coverage products, the new digital indoor coverage is undoubtedly the best choice for 5G.

In order to meet the needs of operators, integrators and other customers for the construction of 5G mobile communication networks, Nanjing DIGITGATE Communication Technology Co., Ltd. independently designs, develops, and produces 5G network series RRU base station products.

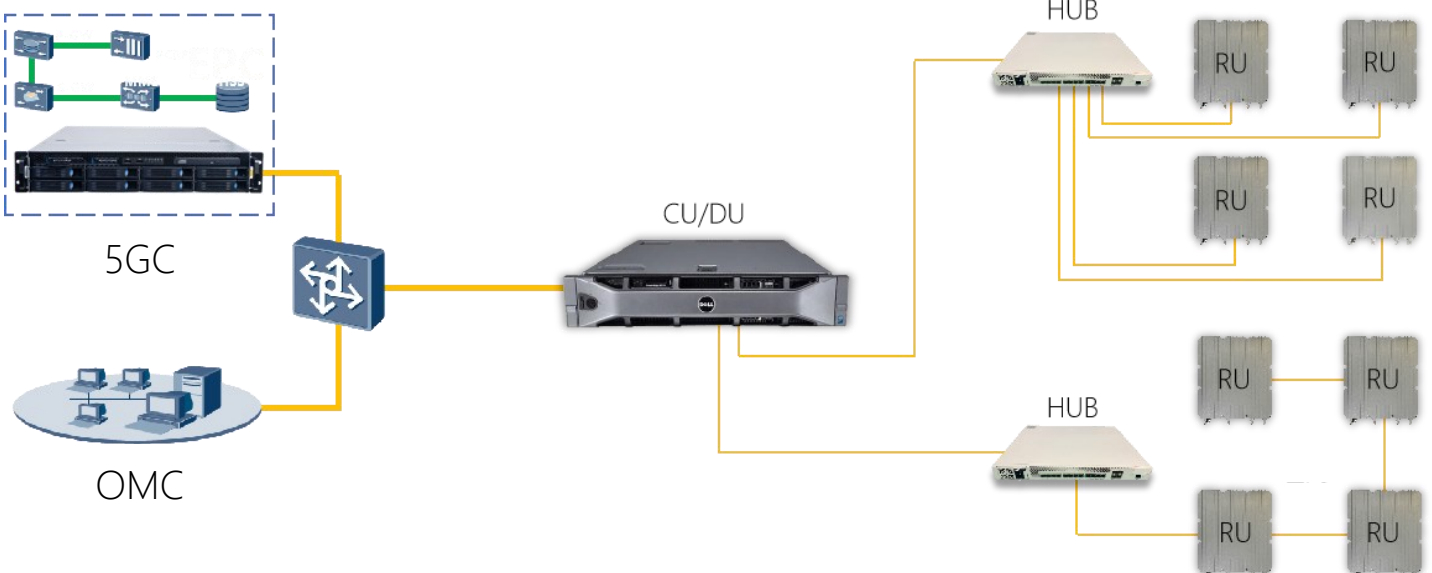
This product provides low-cost and fast 5G network construction, helps telecom operators, system integrators and service providers to enhance 5G indoor coverage, and quickly improves user experience in shops, office buildings, homes and other scenarios.



Features

- Follow the reference design proposed by the ORAN Industry Alliance
- Meet the 3GPP Release 15 standard
- Support option 7-2 or option 8, connect with DU or HUB equipment through eCPRI or CPRI interface
- It can provide up to 4×250mW output power, up to 160MHz bandwidth, up to 256QAM, and 4T4R
- Support remote photoelectric composite cable power supply, plug and play, flexible deployment.

Architecture



RF SPECIFICATION

Frequency Band	2515MHz-2675MHz 2320MHz-2370MHz 1710MHz-1735MHz / 1805MHz-1830MHz	Tx Power	4×250mW/Tx (NR) 2×250mW/Tx (LTE-TDD) 2×250mW/Tx (LTE-FDD)
Channel BW	NR: 100MHz、60MHz LTE: 20MHz (TDD&FDD)	Tx Power Accuracy	±2dB
Signal BW	2.6G: 160MHz	Multi-mode	GSM, LTE FDD, TD-LTE and NR
MIMO	NR: 4T4R; LTE: 2T2R	ACLR	≤ 45dBc
ACS	≤-88dBm	ICS	≤-88dBm
Modulation (UL)	$\pi/2$ -BPSK、QPSK、16QAM、64QAM	Modulation (DL)	QPSK、16QAM、64QAM、256QAM
RF Power Configuration	Supports independent configuration of each channel	Tx Power Fallback	Transmit power reduction > 10dB
EVM	64QAM ≤5%; 256QAM ≤3.5%	Rx Sensitivity	≤ -94dBm/Rx
Different systems block	2400MHz-2483.5MHz < -88dBm 5150MHz-5350MHz < -88dBm 5725MHz-5850MHz < -88dBm	Emission spurious	2320MHz-2370MHz < -78dBm/MHz 2400MHz-2483.5MHz < -78dBm/MHz 5150MHz-5350MHz < -70dBm/MHz 5725MHz-5850MHz < -70dBm/MHz

INTERFACE


ANT	4× external SMA ports or built-in Ant
OPT	1× 10G SFP OPT, Support CPRI/eCPRI
Power supply	1× DC -48V
OMT	1× RJ-45
DEBUG	1× RJ-45

PHYSICAL SPECIFICATION
RELIABILITY AND ENVIRONMENTAL

Device Models	Indoor type, volume ≤ 3L, weight ≤ 3kg	Protection level	IP31
Installation	Support wall and ceiling installation	T&H	T: -5°C-55°C, H: 5%-95%
Cooling	Natural heat dissipation	ATM	70Kpa-106Kpa
Power supply	Support photoelectric composite cable	Support in-place detection	
Light	1× opt port, 1× power	Support power failure alarm	
Power consumption	≤50W	Support remote maintenance and upgrade	