

700M 4T4R 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.

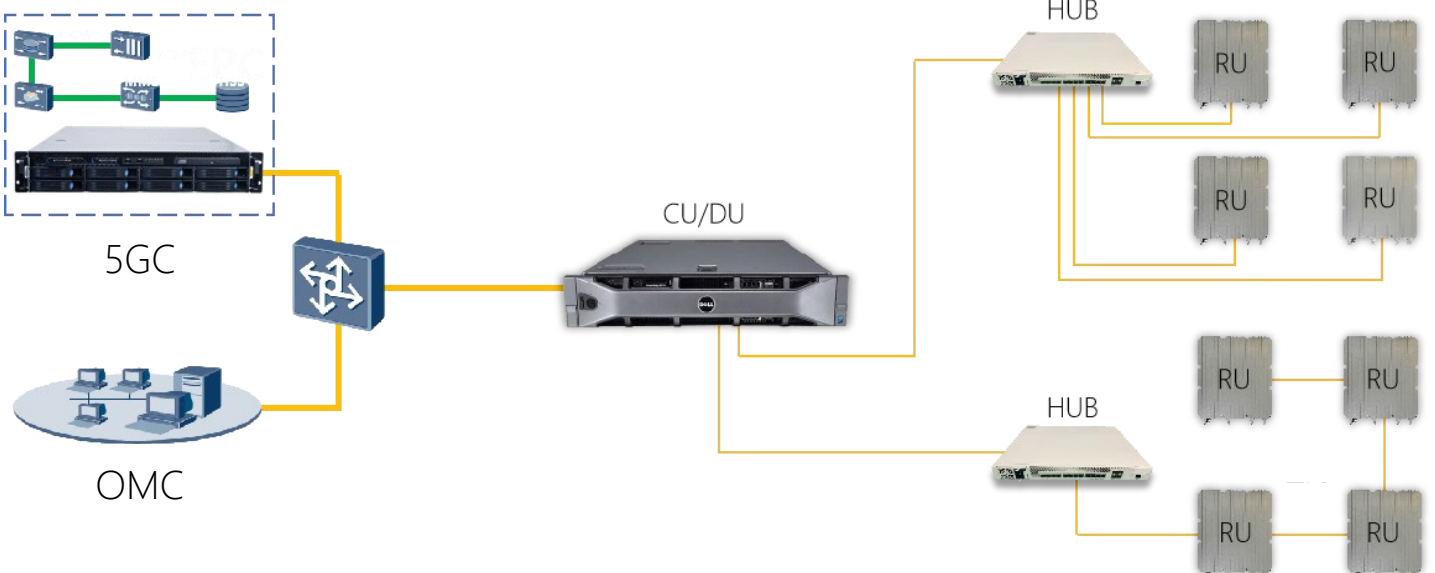
This product provides low-cost and fast 5G network construction, which can help telecom operators, system integrators and service providers to enhance 5G network coverage in outdoor scenarios and quickly improve user experience.



Features

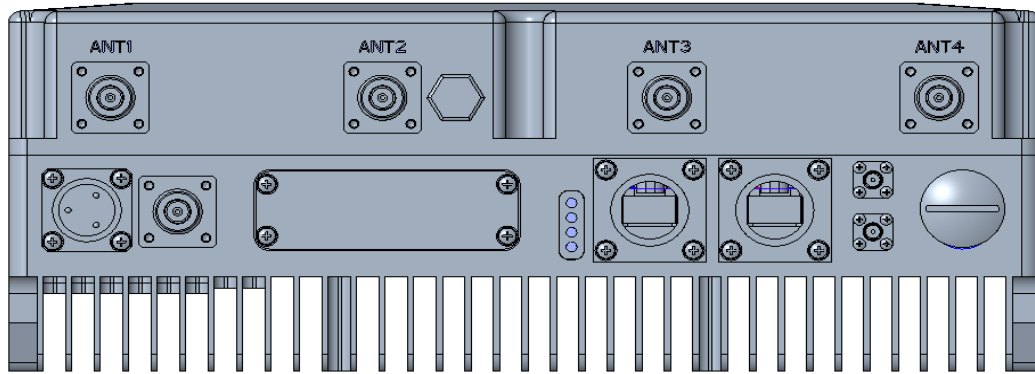
- Follow the reference design proposed by the ORAN Industry Alliance
- Meet the 3GPP Release 15 standard
- Support option 7-2 or option 8, connect with DU or HUB equipment through eCPRI or CPRI interface
- It can provide up to 4×20W output power, up to 45MHz bandwidth, up to 256QAM, and 4T4R
- Support remote photoelectric composite cable power supply, plug and play, flexible deployment.

Architecture



RF SPECIFICATION

Frequency Band	UL: 703MHz~743MHz DL: 758MHz~798MHz	Tx Power	4×20W/Tx
Channel BW	40MHz	Tx Power Accuracy	±2dB
Signal BW	40MHz	Multi-mode	Not involved
MIMO	4T4R	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

INTERFACE


ANT	4× External N-type Port	LMT	2× RJ-45 [OMT&DEBUG]
OPT	2× 10G SFP OPT	CAL ANT	1× External N-type Port
Power supply	1× DC -48V	Light	1× RUN , 1× ALM , 2× OPT1-2
GPS	1× External SMA Port	EXT-LO	1× External SMA Port

PHYSICAL SPECIFICATION
RELIABILITY AND ENVIRONMENTAL

Device Models	Outdoor type	Protection level	IP67
Device Size	380mm×330mm×128mm	T&H	T: -5°C-55°C, H: 5%-95%
Power consumption	≤300W	ATM	70Kpa-106Kpa
Power supply	Support DC 48V or AC 220V	Cooling	Natural heat dissipation