

World's Most Compact Private 5G O-RAN Platform ~PoC system~

5GC/CU/DU/PTP GM configurable on-premise with a single industrial server with wide operating temperature range

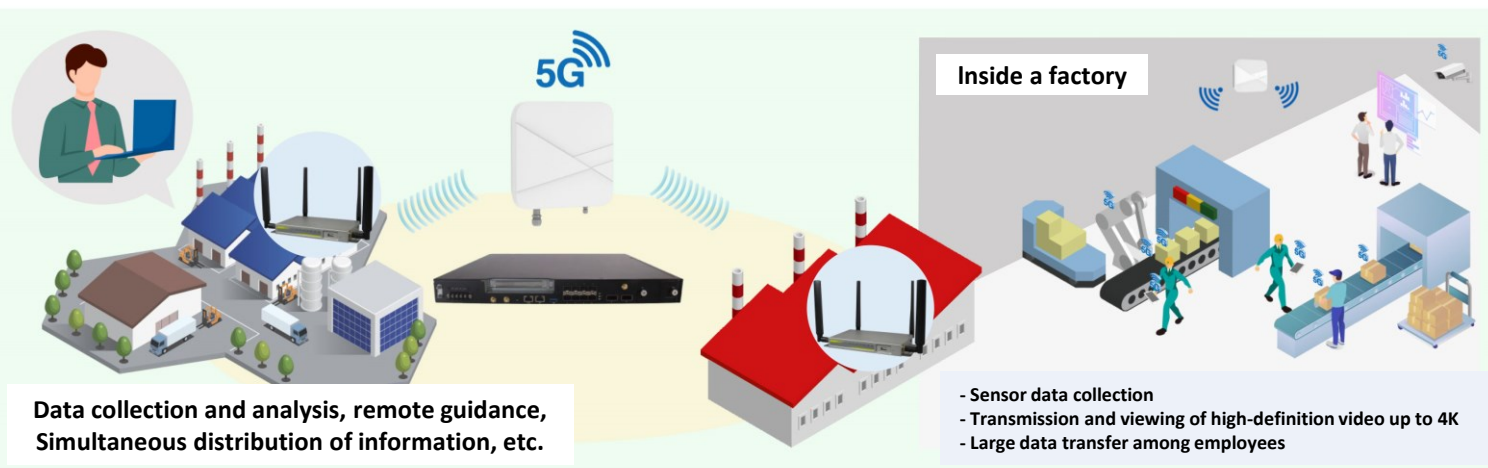
Total PoC system including a local 5G-compliant industrial router, video transmission equipment, and license application support



Features

- Semi-synchronous TDD uplink over 300Mbps
- 1 radio unit for 1 CU/DU (planning up to 2 radio units)
- Up to 32 devices for 1 radio unit
- 5G core is fully on-premise network compatible, creating a secure environment
- 5GC CU/DU compact integrated server (in one box)
- 5GC and CU/DU separation support
- Multiple base station vendors supported
- One-stop providing including 5G router for industrial use
- Provides system evaluation with low latency 4K video solution
- Full support for license applications

Configuration Example



Compact Private 5G Platform

PoC model

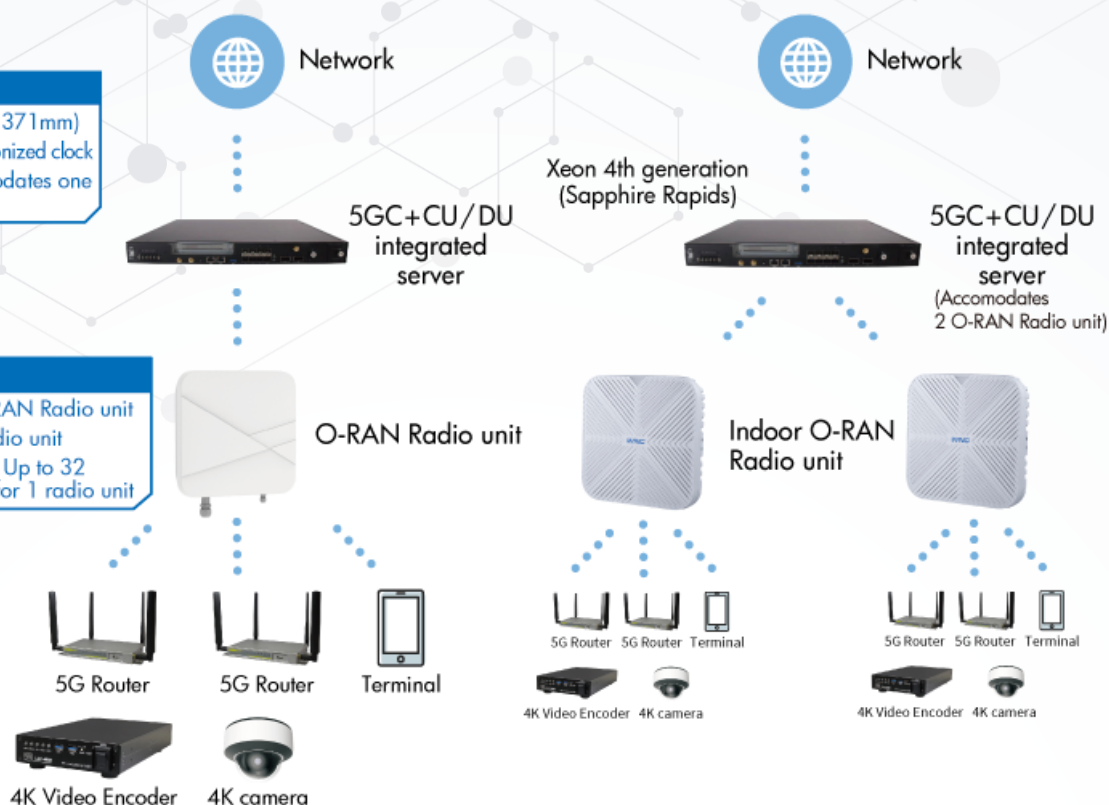
Commercial Model I (2024 Q3 (CY))

Server

- Compact (1U, depth 371mm)
- Built-in GPS for synchronized clock
- PoC model accommodates one O-RAN Radio unit

O-RAN Radio unit

- Compact indoor O-RAN Radio unit
- Outdoor O-RAN Radio unit
- 1 O-RAN Radio unit Up to 32 devices connections for 1 radio unit



Specification

System		CU/DU/5GC server	
3gpp Release	Release 15	CPU	Intel Xeon D
Modulation scheme	DL: QPSK/16QAM/64QAM/256QAM UL: QPSK/16QAM/64QAM	Physical interface	1x GbE RJ45 IPMI, 8x 10G SFP+, 1x RJ45 Console, 1x USB 3.0,
Fronthaul interface	O-RAN split option 7.2x	Input power	100V~240VAC / -57~40VDC (optional)
TDD slot format	Sync TDD, Semi-sync TDD1/2/3	Power consumption	≤400W
Time Synchronization	PTP (G.8275.1)	Operating temperature	0~40°C(AC model) / -40~65°C(DC model)
device connection capacity	Up to 32 devices per 1 RU	Operating humidity	5~95%
RU connection capacity	Up to 2 RUs per 1 server	Size & Weight	438 x 371 x 44mm (19" 1U)

Indoor radio unit		Outdoor radio unit	
Frequency band	5G NR n79 (4800~4900MHz) / 100Hz band		
Antenna	External (x4 SMA ports)	Internal (x8 port)	
Maximum TX power	1W (250mW x 4 ports)	2W (250mW x 8 ports)	
Physical interface	1x 10G SFP+, 1x 1GbE RJ45, 1x 10GbE RJ45	1x 10G SFP+, 1x 1GbE RJ45, 1x 10GbE RJ45	
Data streams	4 steams / 4T4R	4 streams / 8T8R	
Input power	12VDC / PoE++	-48VDC	
Power consumption	≤60W	≤100W	
Operating temperature	-5~+40°C	-40~+55°C	
Size and Weight	260 x 242 x 42mm, weight < 2.3kg	390 x 390 x 135mm, weight < 12kg	

These specifications and appearance are subject to change without notice due to improvements. Please confirm the latest information when purchasing and using the product. When using our products, please be sure to read the specifications and operating instructions attached to the product and use the product in accordance with the contents described.



HYTEC INTER Co., Ltd.

〒151-0053 Ichigo Nishisando Bldg, 3-28-6 Yoyogi Shibuya-ku, Tokyo Japan

For price, delivery date and specification query

TEL: +81(0)3-5334-5260
FAX: +81(0)3-5334-3688
Email: sales@hytec.co.jp

For technical query

TEL:0570-060030 (customer support)
Email:support@hytec.co.jp