

```

elif operation == "mirror_mod.use":
    mirror_mod.use = True
    mirror_mod.use_x = False
elif operation == "mirror_mod.use_x":
    mirror_mod.use_x = True
    mirror_mod.use = False
elif operation == "mirror_mod.use_y":
    mirror_mod.use_y = True
    mirror_mod.use = False
elif operation == "mirror_mod.use_z":
    mirror_mod.use_z = True
    mirror_mod.use = False

```

```

mirror_ob.select = 1
modifier_ob.select = 1
bpy.context.scene.objects.active = modifier_ob
print("Selected" + str(modifier_ob)) # modifier ob is the active
mirror_ob.select = 0

```

IPLOOK 5GC Solution

2020.06

- 01 5G Intruduction**
- 02 5GC Architecture and Deployment**
- 03 5GC vertical networks**
- 04 Why choose IPLOOK**





01

5G Introduction

5G Evolution

The mobile communication goes through a upgradation every one decade.

With the introducing of advanced technology, the efficiency of frequency usage and the capacity are improved dramastically. As a result, the inovative services are emerging.

- **Prospect:** eMBB, mMTC, uRLLC, Inernet of everything
- **Initiative:** Convergend network service and requirement oriented service

2000s



3G CDMA

- 300kbps~80Mbps
- Mobile multi-media services



2010s



4G EPC

- 100Mbps~1Gbps
- Mobile broadband services



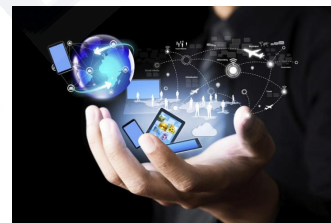
IPLOOK

2020s



5G 5GC

- 1Gbps~20Gbps
- Diversed mobile broadband service



5G application scenario: eMBB, mMTC, uRLLC

Enhanced Mobile Broadband

20Gbps Max



3D video, UHD screen



Remote work



AR



Voice

Massive Machine Type Communication

1M connections per SK



Smart city

Smart home

Ultra Reliable Low Latency communication

1ms Latency



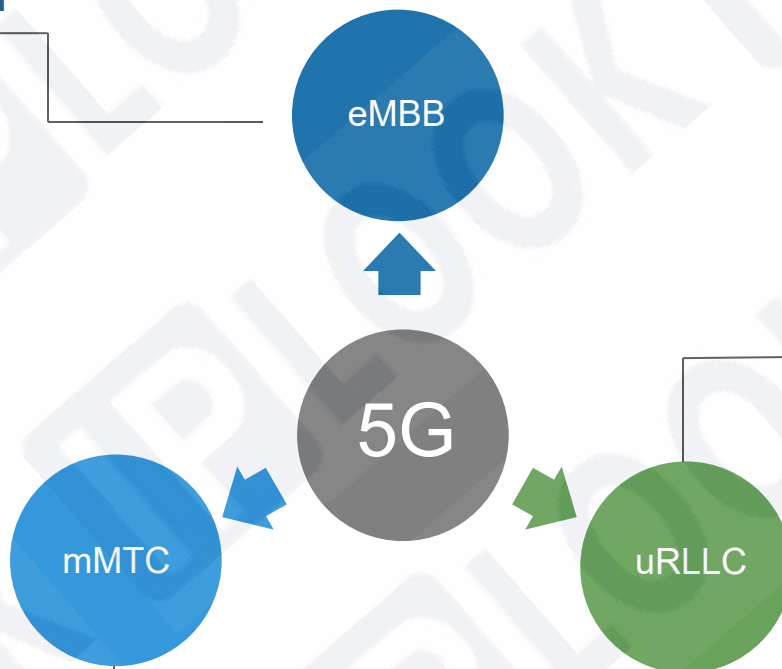
Autonomous product line



The low latency application



Autonomous Driving

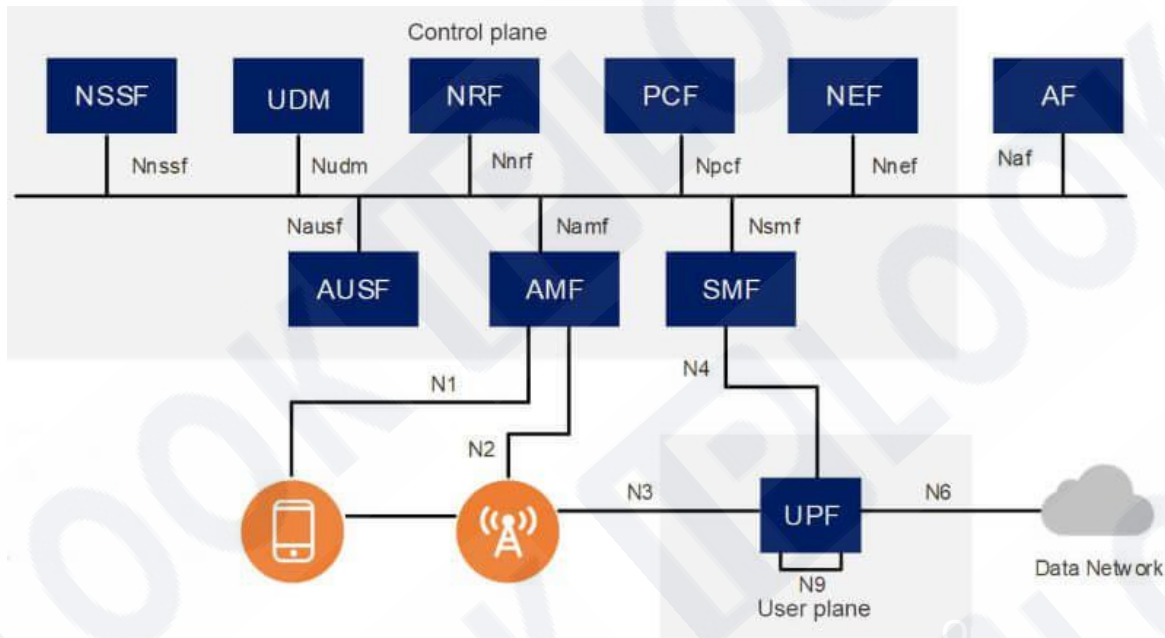




02

5GC Architecture and Deployment

5GC network architecture



Self-Developed 5GC

Self-developed 5GC support X86 server deployment or cloud deployment

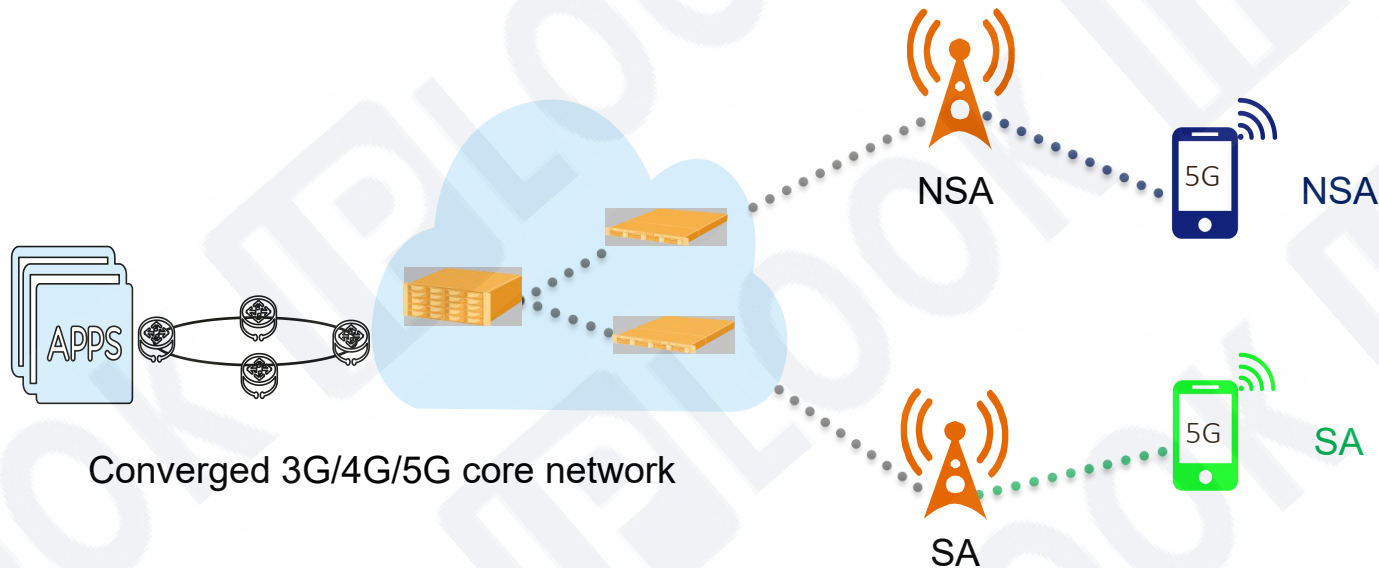
Open RAN

Joining TIP, O-RAN to keep intimate negotiation with NR vendors. As a result, IPLOOK's 5GC owns excellent compatibility.

Advanced Tech

Comply to 3GPP R15/R16, keeping pace with all the main telecom infra provider.

NSA/SA converged into one



- IPLOOK 5GC could support NSA/SA radio network simultaneously.
- IPLOOK 5GC supports the legacy 4G radio equipment and terminals.

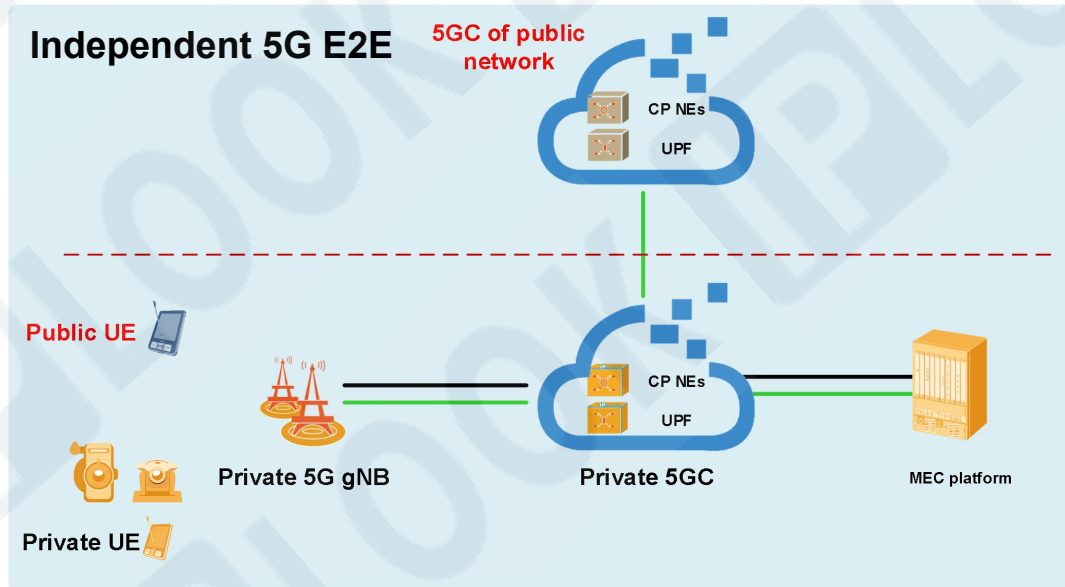
5GC deployment mode 1

Security of enterprise data:

5G private network and public network are physically isolated to provide complete data security, which can guarantee the absolute security of enterprise data (the disconnection of public network will not be affected).

Lower network latency: 5GC and NR are deployed locally

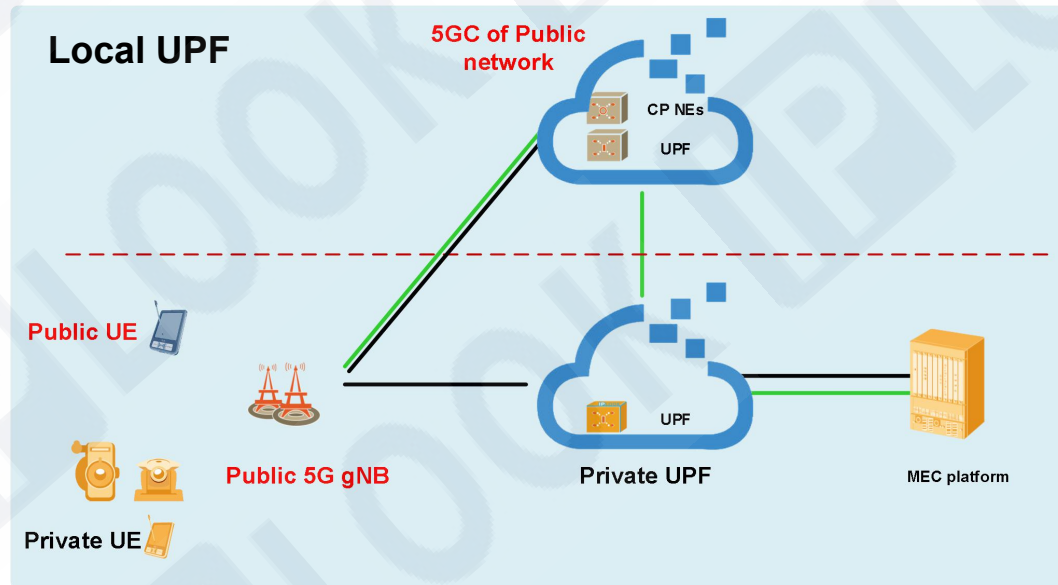
Self management network: even if the public network is cut off, congested, etc, the private network will not be affected



5GC deployment mode 2

Data security: UPF deployment locally can still ensure the security of enterprise data

Lower network latency: UPF enables local breakout, which can guarantee low network latency





03

5GC Vertical Networks

5G Vertical networks

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Smart Port



Smart Manufactory



Autonomous driving



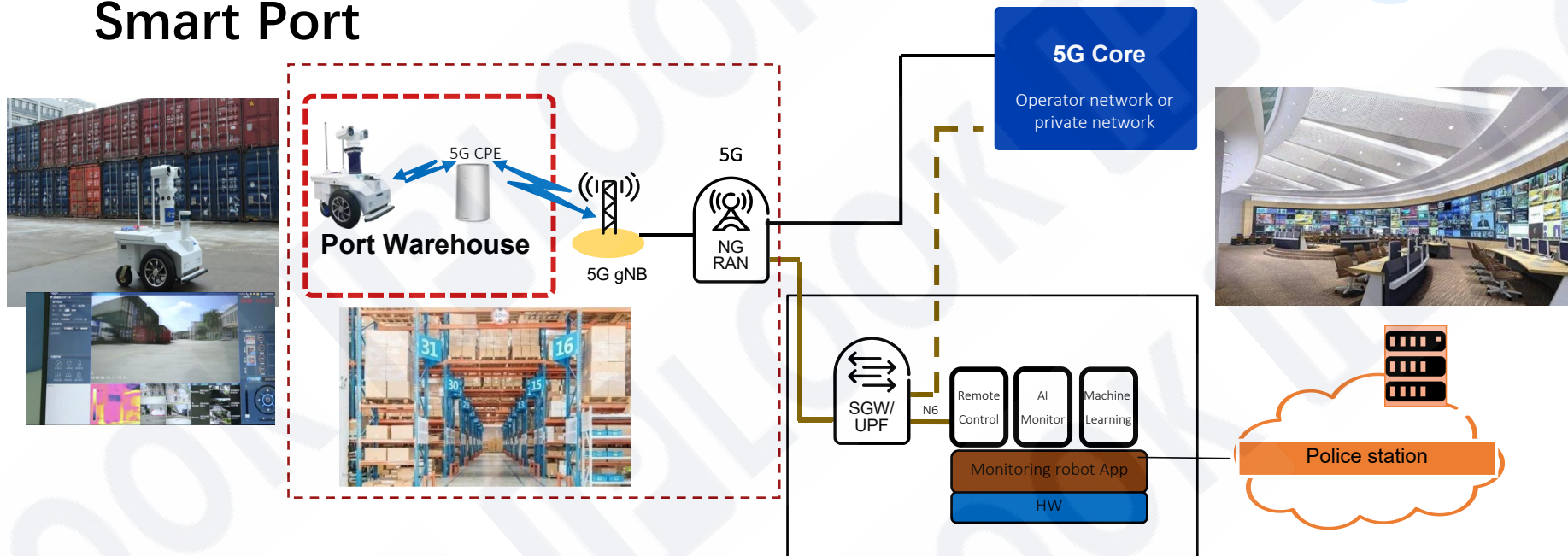
5G Satellite



Smart farming

... ..

Scenario 1-Port Smart Port



▶ AI Security Robot

The remote control on the robot with less than 10ms latency.
The HD video transmission through 5G wireless network

▶ Gantry Crane

Remote control on the gantry crane

▶ AI Scan Machine

Counting the container or packages automatically

Scenario 2- Manufactory

Smart Manufactory

IPLOOK



Surveillance

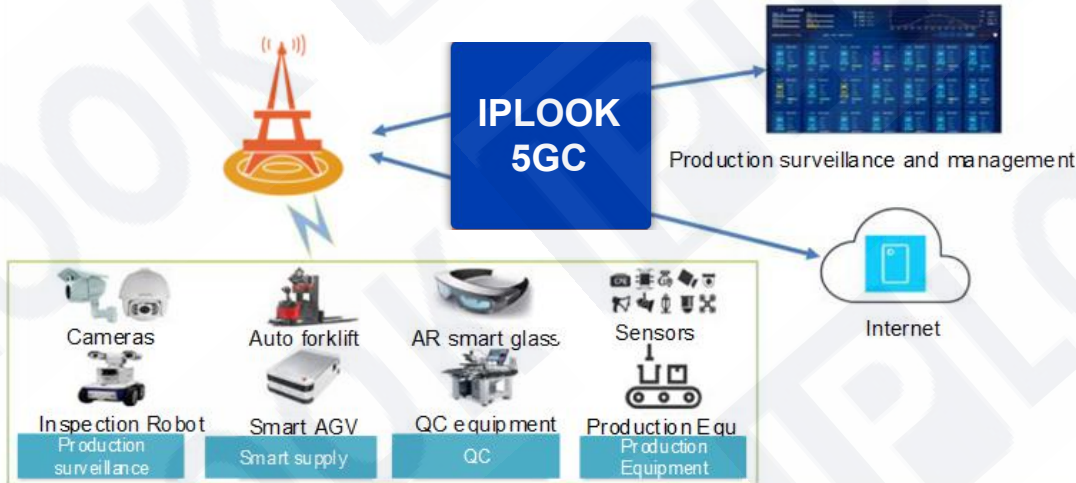
The Reliable surveillance system in factory

Supply

The Autonomous supply system to improve the efficiency

Sensors

The smart AI production equipment control by cloud brain.



Scenario 3- Farming

Smart Farming

IPLOOK



5G gNB

IPLOOK
5GC

Remote control and management



Data management



Sensors

Massive sensors connected.
NB-IoT or common IoT
terminals supported

Unmaned

The remote control near
terminals to reduce latency
but the data management
system on cloud

Compatible

Compatible core to support
other platform or radio
equipment vendor



04

Why choose IPLOOK

Why choose IPLOOK

IPLOOK



Cases all over the world

IPLOOK has accumulated 500+ commercial deployment in the last 9 years. Its 3GPP-compliant 3G/4G/5G core network could be easily integrated with legacy network.



The full stack core network

It has 3G, 4G and 5G full core network to ensure a smooth upgrade. With its open architecture, IPLOOK's core network supports multi-vendor bases stations and CPEs



Tailor-made solution

Focus on customer needs, IPLOOK provides all size scalable networks to satisfy various requirements of operators and enterprises. Onsite services and 7*24 support are included.



Save CAPEX & OPEX

With the compact deployment and virtualized deployment, our NFV-based core network software is scalable, flexible, easy to deploy and manage at a low cost.

THANK YOU



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