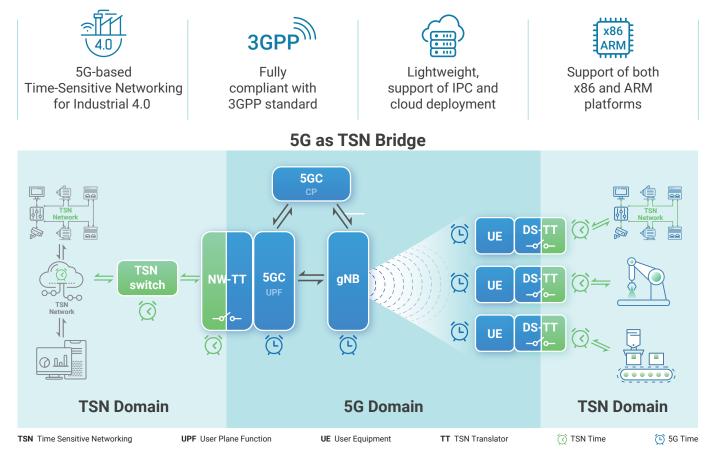


Hong Kong Applied Science and Technology Research Institute 香港應用科技研究院

**ASTRI** 

# TSN-enabled 5G System



ASTRI's solution delivers a deterministic network for "5G Smart Industrial", realising Industrial 4.0 transformation towards a fully 5G connected factories.



## HIGHLIGHTS

< 240ns\* End-to-end precise time

synchronisation

lus\*
End-to-end ultra-low jitter

**0** packet loss\* End-to-end high availability

#### **FEATURES**

- Modular design, flexible in deployment and integration
- Lightweight 5G UPF, supporting both edge computing and cloud-network convergence
- Seamless integration with existing 5G network and TSN network

#### **USE CASES**

- Wireless real-time industrial remote control
- Wireless real-time sensor data collection
- High bandwidth and real-time AGV/AMR

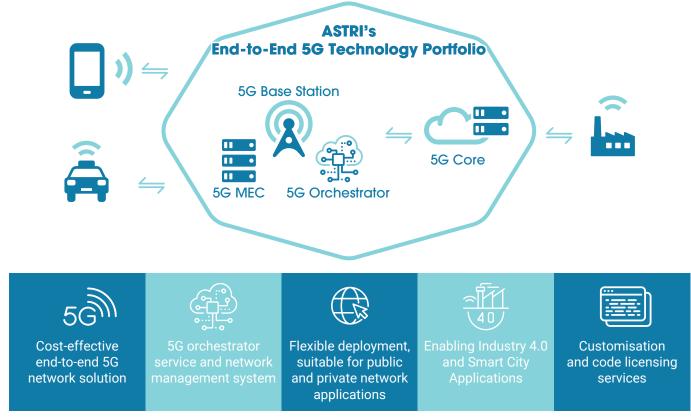
\* Based on real test environment in lab



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ASTR

# End-to-End 5G Solution



ASTRI's 5G technologies have since been licensed to many companies, and recently ASTRI has been supporting major public sectors and organisations for 5G rollout in Hong Kong.



- KEY FEATURES
- High throughput (>1.3Tbps)
- 5G Base Station, Core, MEC and Orchestrator
- Flexible deployment: bare metal, VM, container, cloud deployment
- Support R15, R16 and R17 cutting edge features

### **USE CASE ENABLED**

- 5G AGV in the smart factory
- 5G fully-connected factory, smart PLC, smart robot
- 5G machine vision, 5G drone inspection
- 5G machine collaboration, AR / VR assisted design

ASTRI's end-to-end 5G technologies are licensable and aim for vertical market applications, enabling our customers to enter the market quickly.

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