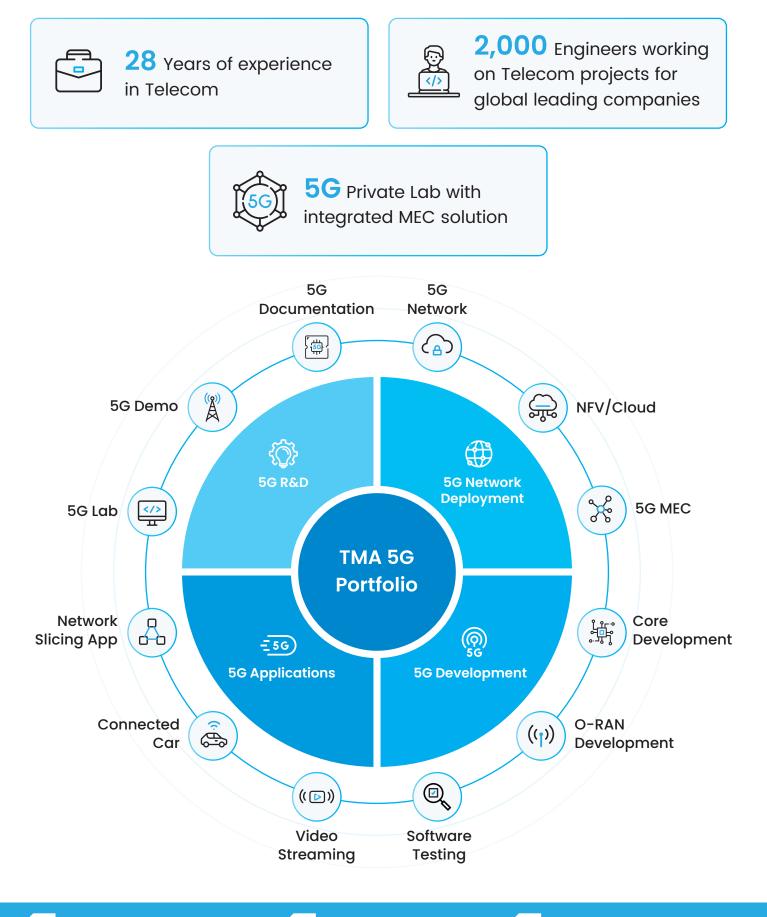


5G Center



🗞 +84 28 3997 8000



Technologies

Edge ComputingVNF, NFV, K8S CloudDevOps Jenkins, CI/CDProgramming C/C++, Java, Python, GoSDN, NetworkingAutomation Robot Framework, Python	eMBB, uRLLC, mMTC	O-RAN (Open RAN)	Network Slicing
C/C++, Java, SDN, Networking Robot Framework,	Edge Computing		
	C/C++, Java,	SDN, Networking	Robot Framework,

Protocols HTTP/2, TLS, TCP, UDP, SCTP, IP, GTP, NGAP, NAS, PFCP, RRC, PDCP, SDAP, RLC, F1AP, E1AP, E2AP, XnAP.





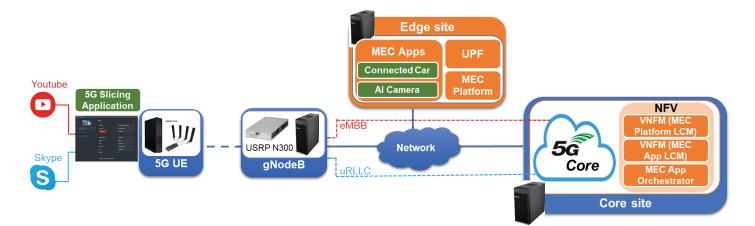


التوليالتو					
5G MEC Deployment	ိုးကို သူဂို 5G Core Development	्रि NFV/Cloud Deployment			
UE Simulation Development	ہوج VNF Orchestration	5G Software Testing			
Software Deployment for 5G Private Network	Private Cloud Deployment	PoC Implementation			

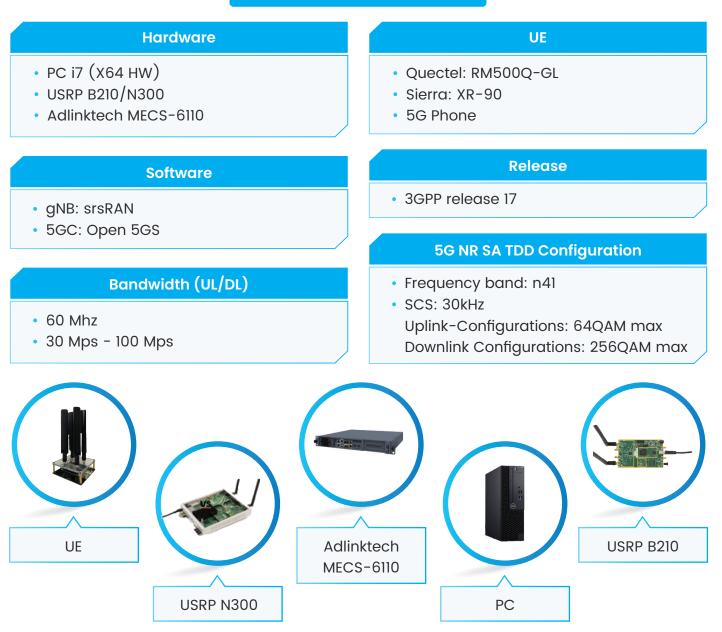


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5G LAB COMPONENTS





5G LAB CONFIGURATION





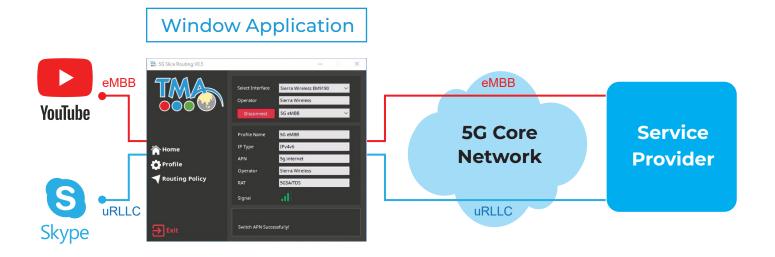
5G NETWORK SLICING WINDOW APPLICATION

Window Application's functions

- Start multiple PDU sessions to different 5G network slices
- Automatically route app traffic to appropriate 5G network slices

Window Application's key features

- Manage Interface, Profile
- Manage Routing Policy for specific
 application
- Display network connection characteristics
- Automatically switch network slice based on APN and Routing Policy





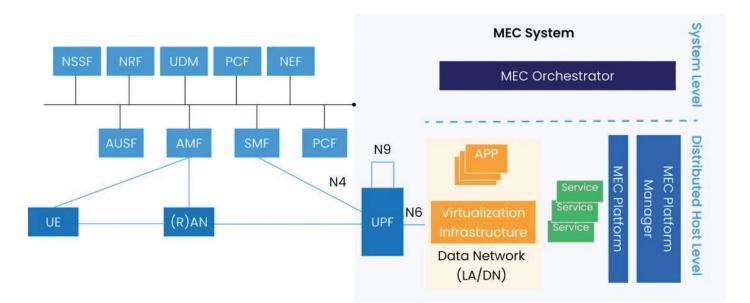
POC - 5G MEC SYSTEM

PoC Product

- Provide an application deployment platform close to the end users (edge site). This MEC platform helps to deploy real-time, compute and resource-intensive applications like video caching, augmented reality, virtual reality, and Internet of Things at the edge
- Help decrease congestion & latency at 5G Core site

PoC Description

- Follow ETSI standard
- 5G Core Network (gNB, Core),
 5G Apps
- MEC system includes:
 - MEC Platform (MEP)
 - MEC Manager (MECM)
 - MEC App Orchestrator (MEAO)
- Technologies: Edge Computing, Traffic steering, DNN, LADN



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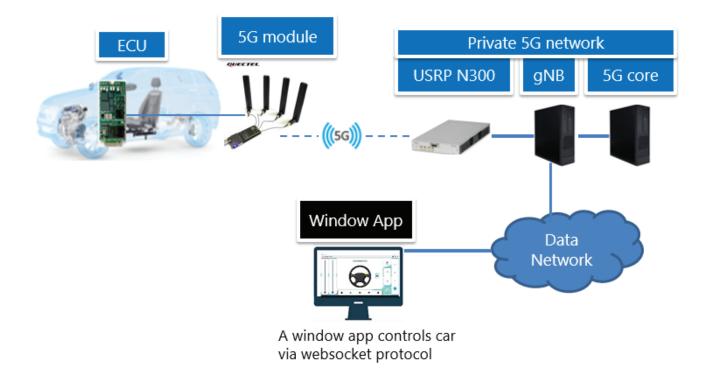
CONNECTED CAR UNDER 5G PRIVATE NETWORK

Application Functions

- Connected Car (by Remote Control) - Car is connected to 5G network and can be controlled remotely by mobile app or window app:
 - Control accelerator/brake to increase/decrease speed
 - Control Steering wheel
 - Turn on/off lights, trumpets
 - Turn on driver assistance features like Cruise Control
 - Video streaming

Technologies

- Computer vision and AI image recognition
- C/C++, Python, OpenCV
- ECU programming
- Protocol: CAN, TCP/IP, USB, Ethernet
- Wireless: 5G, Wifi





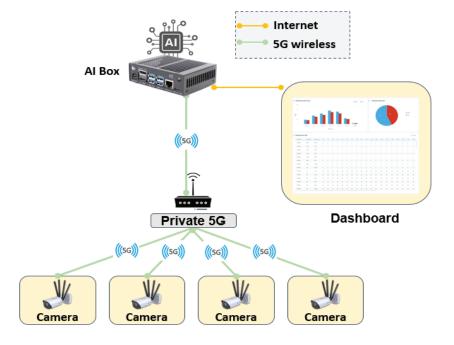
AI CAMERA UNDER 5G PRIVATE NETWORK

Application Functions

- Object Detection: people, vehicle, specific objects
- Face Recognition; Age/Gender Detection
- Extract and store information from video/stream
- Behavior analysis
- Active observation & incident warning
- License Plate Recognition
- Text/Digit Detection and Recognition (OCR)
- Edge processing and Centralized processing
- Network connection with private 5G network

Technologies

- Computer Vision
- Image Processing
- Deep Learning
- Object Tracking, Multiple Camera Processing
- Python, OpenCV, Tensorflow, Pytorch, Caffe, TensorRT, OpenVINO, Onnx
- Restful API, MQTT







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