



ALT meeting- 5G and new Projects
Fii attendees: Vincent, Greg, Victor, Henry

2/11~2/12 schedule

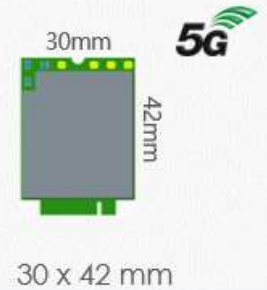
Date	Time	Topic
2/11	15:30~18:30	Eagle project discussion
	19:00~21:00	Dinner meeting
2/12	08:30~09:00	Pick up for ALT from hotel to Fii
	09:00~12:00	SWAN project discussion
	12:00~14:00	Lunch break
	14:00~17:00	5G products and new projects

Agenda

- Fii 5G products portfolio
- LGE M.2 module
- LTE MiFi with T-mobile
- SKT 5G products demand
- Hyundai smart factory 5G products demand

LGE M.2 module

- Does LGE design and manufacture their own 5G module?
- What is their plan?
- What is LGE module price?



5G M.2 Module

MP in March, 2020

5G NR

- Sub-6: n1/2/3/5/7/8/12/20/28/
n41/66/77/78/79
- [mmWave](#): n257/258/260/261

4G LTE

- DL Cat.20, 7CA, 4x4 MIMO
- UL Cat.13
- GNSS L1 + L5

Interface

- [PCIe](#) Gen 3 2-lane
- [PCIe](#) Gen 3 1-lane, USB3.1 (optional)
- [USIM](#), [eSIM](#)

Antenna

- 4 for 3G, 4G, 5G Sub-6 and GPS
- 3 for 5G [mmWave](#)

4G Mobile Hotspot (Cat.4)

LTE Portable Router



Technical Specification

Hardware Configuration

CPU: MDM9207 + WTR-2965, Cortex A7 1.2GHz
Wi-Fi: 2.4 IC: RTL8189 802.11b/g/n 1x1
USB: Micro USB

Memory

2Gb/2Gb MCP
(256MB NAND flash + 256MB LPDDR2)
Battery: 2600mAh

Antenna

2 * Internal LTE Antenna, 1 * Internal Wi-Fi Antenna

LTE Standard Compliance

LTE Cat4, FDD – DL/UL: 150/50 Mbps, TDD – DL/UL: 110/10 Mbps

3GPP To support Sprint and T-mobile bands
Frequency

Network Function

IPv4/IPv6 dual stack
NAT, DNS Proxy, Port Forwarding, VPN Pass-through, DHCP Server/Client

Device Management

WEB UI Management
Dual firmware image mechanism

Physical & Environment Specification

5V input, 4.35V output Maximum
Dimension: 65.2(W)X96.6(D)X15.2(H) (TBCD)

Operation temperature: 0 ~ 40°C
Humidity : 5 ~ 95% (non-condensing)

LTE MiFi for T-mobile

- Current business status of cat 4.
- Is there demand for Cat 18?

SKT 5G products demand

- What is SKT's 5G service product plan
 - 5G Ethernet bridge sample will be ready in mid March



Foxconn Industrial Internet
富士康工业互联网

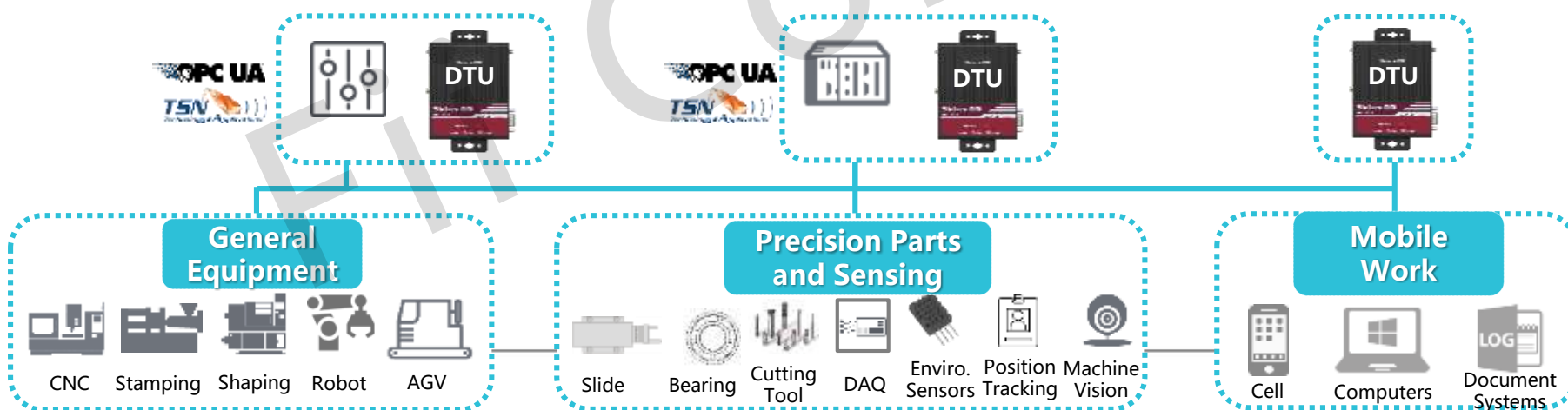
5G+Industrial Internet for Hyundai

Cloud/Fog Integrated Innovative Architecture



Private 5G Wireless Network Features:

- Private network deployment, preventing production data leakage
- eMBB, large bandwidth
- mMTC, wide coverage connectivity
- uRLLC, low latency



Cloud Computing

Model training, fog cloud collaboration, remote operation

Mass storage, data sharing, reliable backup

Remote Config ↔ Algorithm Distribution



Fog AI

AI computing and model issuing

AI-linked, precision management (OEE, PHM)

Local deployment, real time computing, high security

Status Reporting ↔ Data Delivery



Gateway

Cross system, high mobility, flexible deployment

Cross system, low latency (<1ms)

Time sensitive network (TSN) wireless extension

Multivariate, flexible protocol conversion

Data mining, cleansing, analytics, processing

Hyundai 5G products demand

- Fii will focus on the 5G products while there will be another group supporting smart factory build up.