MSP MANUAL FOR VEHICLE MANUFACTURER

MODEL NAME: LI99700200

FCC ID: TQ8LI99700200

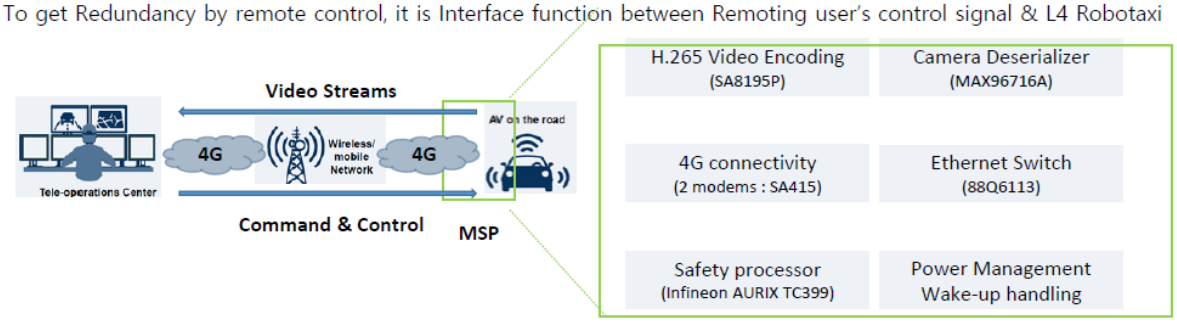
Product is a telematics unit that is specifically designed for autonomous vehicle of the Motional (a joint venture from Hyundai and Aptiv) based on IONIQ 5. (hereafter referred to as IONQIQ robotaxi). The IONIQ 5 robotaxi is the embodiment of the two most transformative technologies in mobility coming together in one vehicle: electrification and autonomy. This zero-emissions robotaxi will not only make transportation safer and more accessible - but it'll also make it more sustainable. This was a core consideration for the team when thinking about the role of autonomous vehicles and how these vehicles can help to make our cities greener.

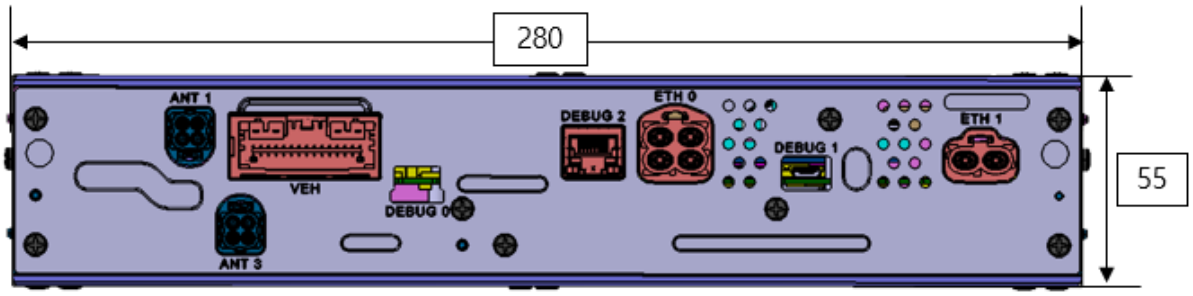
Cellular Communication

Kind of Product	Mission Service Platform
Model Name	LI99700200
Serial Number	863789050097240
Power Supply	DC 12.7 V
Rated Power	LTE Band 2, 4, 5, 7, 12, 13, 14, 25, 26, 66, 71: 23 dBm
Frequency Range	LTE Band 2: 1 850 ㎒ ~ 1 910 ㎒ LTE Band 4: 1 710 ㎒ ~ 1 755 ㎒ LTE Band 5: 824 ㎒ ~ 849 ㎒ LTE Band 7: 2 500 ㎒ ~ 2 570 ㎒ LTE Band 12: 699 ㎒ ~ 716 ㎒ LTE Band 13: 777 ㎒ ~ 787 ㎒ LTE Band 14: 788 ㎒ ~ 798 ㎒ LTE Band 25: 1 850 ㎒ ~ 1 915 ㎒ LTE Band 26(FCC Only): 814 ㎒ ~ 824 ㎒ LTE Band 26: 824 ㎒ ~ 849 ㎒ LTE Band 66: 1 710 ㎒ ~ 1 780 ㎒ LTE Band 71: 663 ㎒ ~ 698 ㎒
Uplink CA Bands	5B, 7C, 66B, 66C
Modulation Technique	QPSK, 16QAM, 64QAM

Antenna Type	Monopoly Antenna
Antenna Gain※	Refer to the clause 1.14
H/W Version	1.0
S/W Version	1.0
FVIN	N/A

Capabilities of MSP	▪ To monitor L4 Robotaxi and connect encoding video using 2 modems ▪ To get Redundancy by remote control, it is Interface function between Remoting user's control signal & L4 Robotaxi





PRODUCT NAME	:	Mission Service Platform
Model Name	:	LI99700200
FCC ID	:	TQ8 LI99700200
IC Certification	:	5074A- LI99700200
Voltage	:	DC 9V ~ 16V, Typ 12.7V
Current	:	Max 6.67A, Typ 2A
Dimension	:	280 X 182 X 55 mm
Mass (E)	:	2.7 kg
Option	:	LTE Modem * 2, Vehicle ethernet 2 ch

MSP gathers images and information from each sensor and camera. Collected information will be sent to server. A single MSP contains 2 independent LTE modules that can operate simultaneously. Each module will be connected one or two carriers so telematics unit can secure enough throughput and reliable connection to the internet. Only one type of LTE module will be mounted on the device via internal USB communication.

FCC Notices

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance is 20 cm between the radiator and your body, there is a physical impediment for anyone to approach with their body a distance less than stated.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.