

MSP MANUAL FOR VEHICLE MANUFACTURER

MODEL NAME: LI99700200

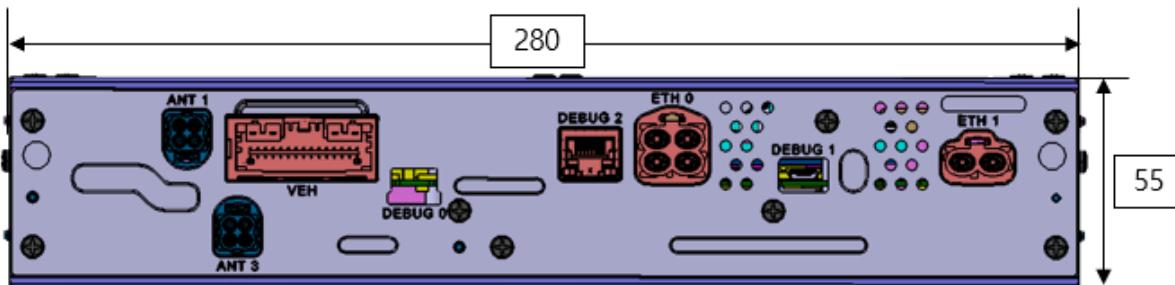
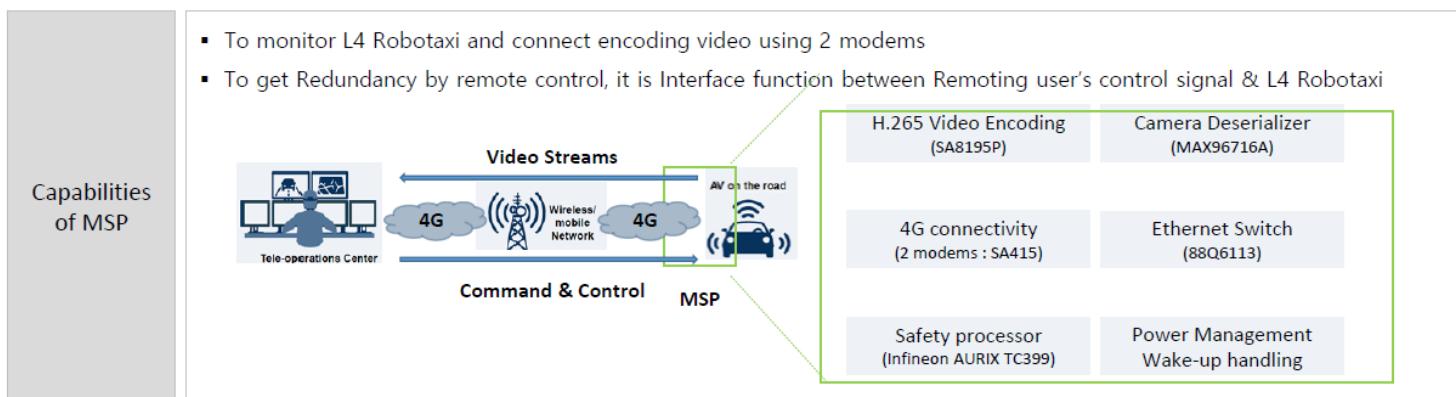
FCC ID: TQ8LI99700200

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 IONIQ 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 MHz ~ 1 910 MHz LTE Band 4: 1 710 MHz ~ 1 755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2 500 MHz ~ 2 570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 25: 1 850 MHz ~ 1 915 MHz LTE Band 26(FCC Only): 814 MHz ~ 824 MHz LTE Band 26: 824 MHz ~ 849 MHz LTE Band 66: 1 710 MHz ~ 1 780 MHz LTE Band 71: 663 MHz ~ 698 MHz
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



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.