APPENDIX A

1. Hardware specification are listed below:

ID	Description	Option
HW-F-01	Hardware is capable of using 4 Jetson modules for AI processing applications. Jetson modules compatible with 45 mm x 69.6 mm 260 pins SO-DIMM Connector can be used. Specifically, the following modules: - Jetson Nano (https://developer.nvidia.com/embedded/jetson-nano) - Jetson TX2 NX (https://developer.nvidia.com/embedded/jetson-tx2-nx) - Jetson Xavier NX (https://developer.nvidia.com/embedded/jetson-xavier-nx-16gb) There will be 1 main module (Master Jetson) used to connect to Display Port, HDMI and Com Terminal	Yes
HW-F-02	1 Port Ethernet 1Gbs	Yes
HW-F-03	1 Port SFP+ – SFP Socket	Yes
HW-F-04	4 Port POE 1Gbps Ethernet to connect to Camera - The power of each port is 25W (Option to increase to 50W) - POE board is designed to be replaceable	Yes
HW-F-05	1 Display Port và 1 HDMI port connect to Master Jetson	Yes
HW-F-06	2 port Com Terminal connect to Master Jetson	Yes
HW-F-07	RTC (Realtime Clock)	Yes
HW-F-08	1 port USB-C to connect to 4 Jetson Nano for firmware update and debug	Yes
HW-F-09	2 slot for SSD 2.5” Drive - Support RAID (Software or Hardware) - SSD is replaceable	Yes
HW-F-10	Power Jack: - Voltage range DC 24 – 48 V (4 header) - Power 192W	Yes
HW-F-10-1	Power Board is designed as module to be able to replace a new board in case we need to support for Car. The Power Board for Car is not included in this Agreement and it will propose in another agreement.	Extension
HW-F-11	The circuit to detect the power loss and back to up the SSD to prevent data crashed	Optional
HW-F-12	Dimension 198x185x65mm (can be changed 10% during design process)	Yes
HW-F-13	Industrial Design: - ID is described in Figure1, Figure 2, Figure 3	Yes

	- Material (Aluminum Anode) - Passive Heat Sink	
HW-F-14	Support slot M2 for support module 5G in the future. All 5G features are not included in this agreement and will be proposed in another agreement. However the ID designed have allocate the space for 5G Antenna	Extension

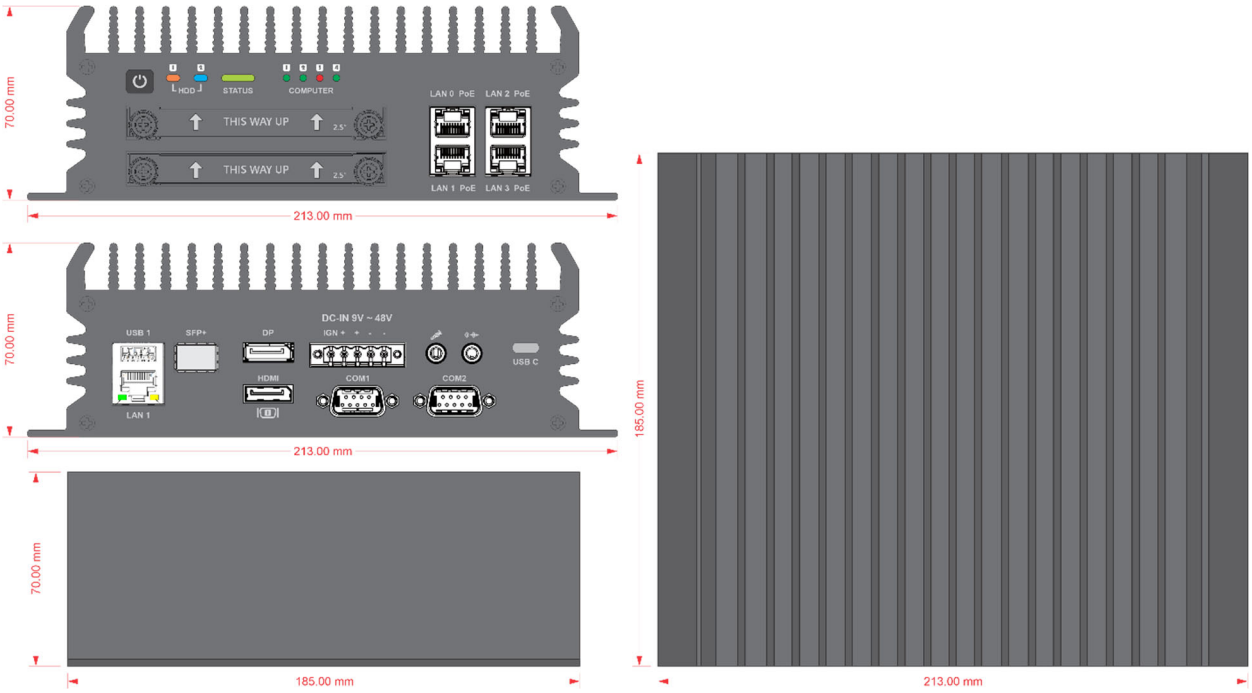

Figure 1. VLP Combox ID

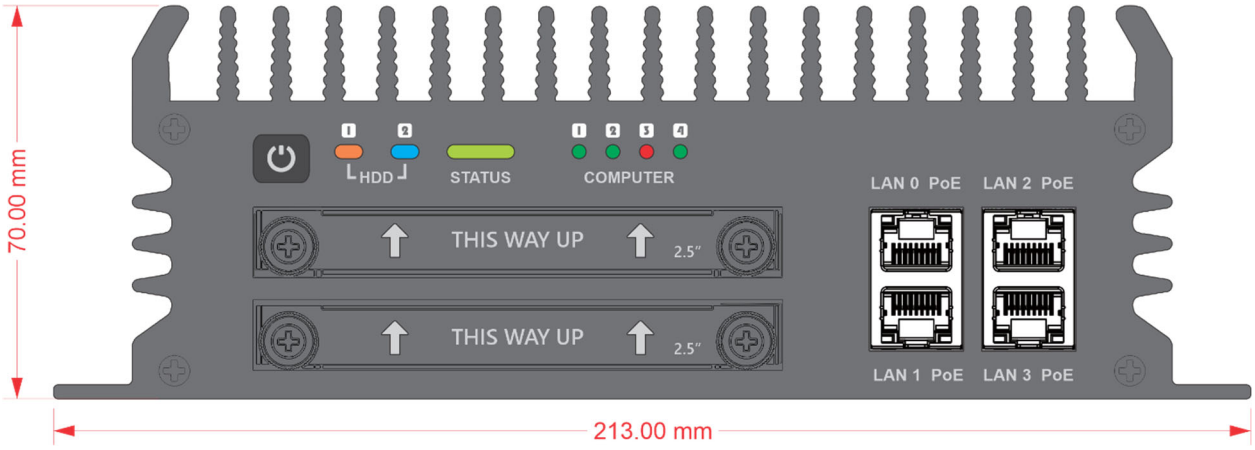

Figure 2. Front view of VLP Combox

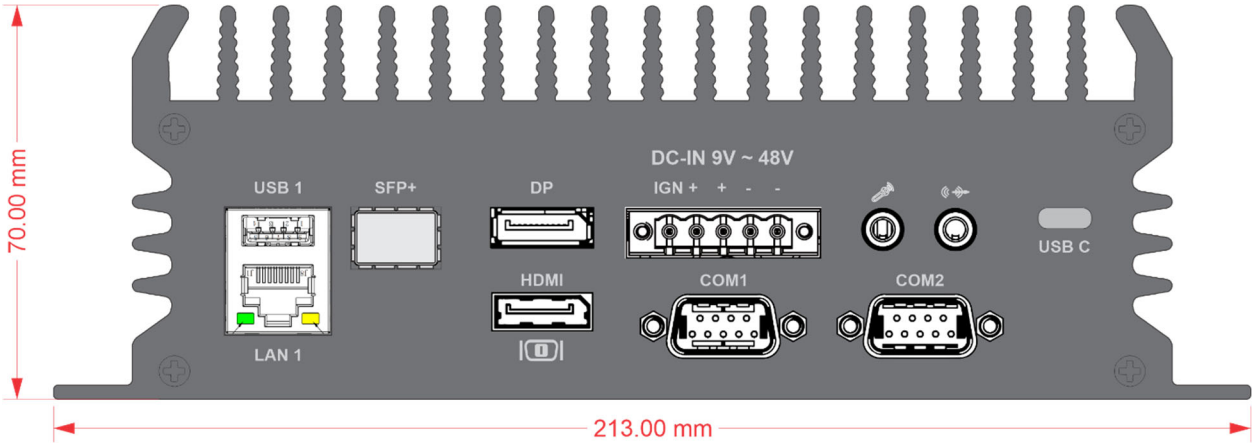

Figure 3. Back view of VLP Combox

2. Specifications of operating systems and system software, sample software listed below:

ID	Description	Option
SW-F-01	Embedded Linux (Kernel 4.9 or above) - Driver cho HDMI, Display Port - Các Driver cần thiết cho các thiết bị ngoại vi	Yes
SW-F-02	Nvdia NVIDIA JetPack library (TensorRT, cuDNN, CUDA, Computer Vision…) version 4.6 or above	Yes
SW-F-03	Driver & RAID software (support 2 SSD)	Yes
SW-F-04	Firmware upgrade remotely	Yes
SW-F-05	Driver for power loss detection & SSD sync to prevent data corrupted	Option