



User Quick Guide of OBU (Smart Antenna) How Connect to Mobile Network

Model name: CTX0800-RoHS-US

2024/09/26



I. Hardware Setup

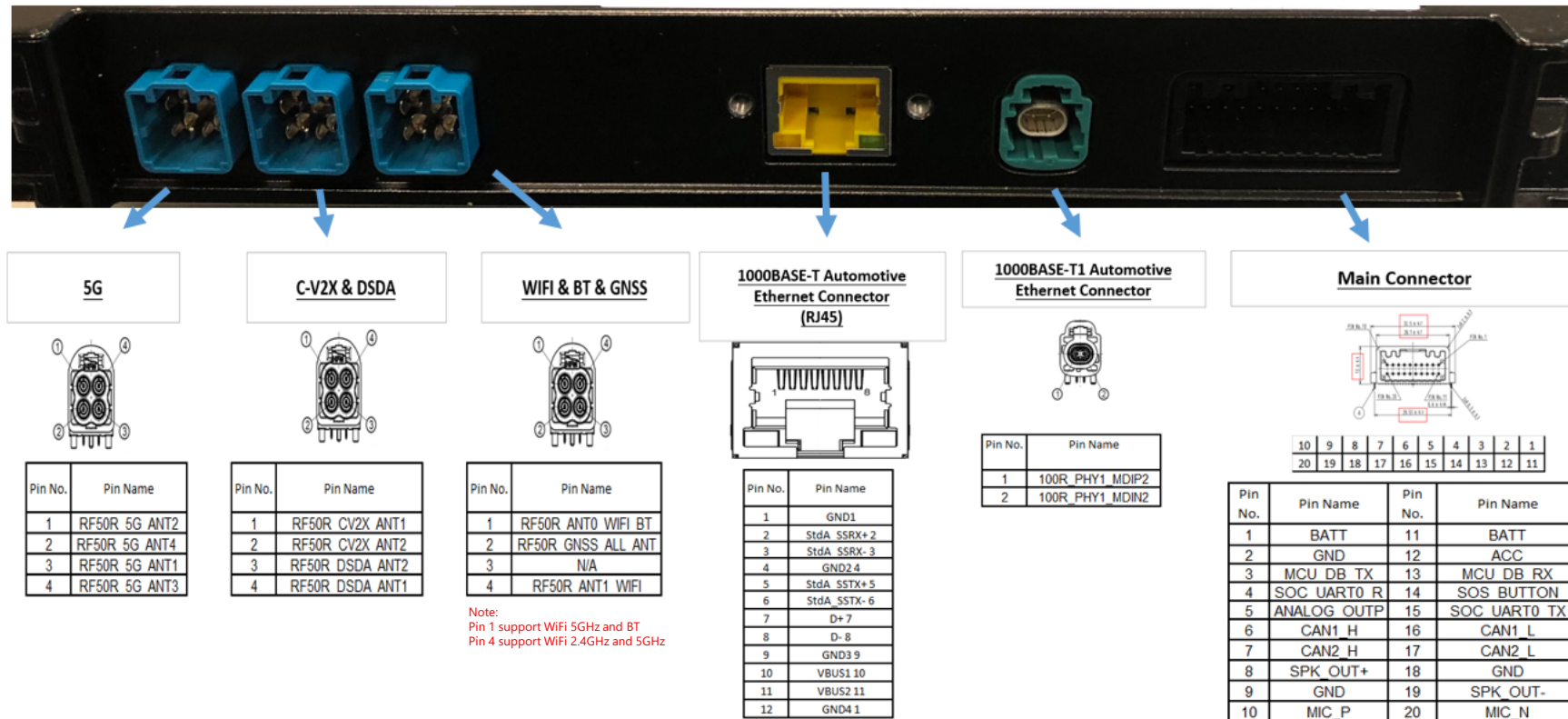
- Part List
- I/O Ports
- Environment Setup
 - Connecting Antenna Sets *3
 - Inserting SIM Cards
- Shark Fin Antenna connection

Part List

Part Name ↴	Photo ↴	Part Name ↴	Photo ↴
5G OBU ↴ (Smart Antenna) ↴		Antenna 1 with FAKRA 1 to 4 cable: ↴ 5G NR/LTE Antennas ↴ (5 meters) ↴	
Main I/O cable ↴ (20cm) ↴		Antenna 2 with FAKRA 1 to 4 cable: ↴ CV2X + DSDA Antennas ↴ (5 meters) ↴	
RJ45 cable bracket and two screws ↴		Antenna 3 with FAKRA 1 to 3 cable: ↴ GNSS + BT/Wi-Fi Antenna ↴ (5 meters) ↴	

I/O Ports of OBU (Smart Antenna)

The I/O definition of SA including antenna 1 with 5G, antenna 2 with C-V2X & DSDA, antenna 3 with Wi-Fi & Bluetooth & GNSS, Ethernet_T1 & RJ45 and main connector as figure below.



Environment Setup – 1/2

Connecting Antenna Sets *3

Different antenna connections can be identified by the labels on the mini-fakra cable and the housing, as shown in the figure below.



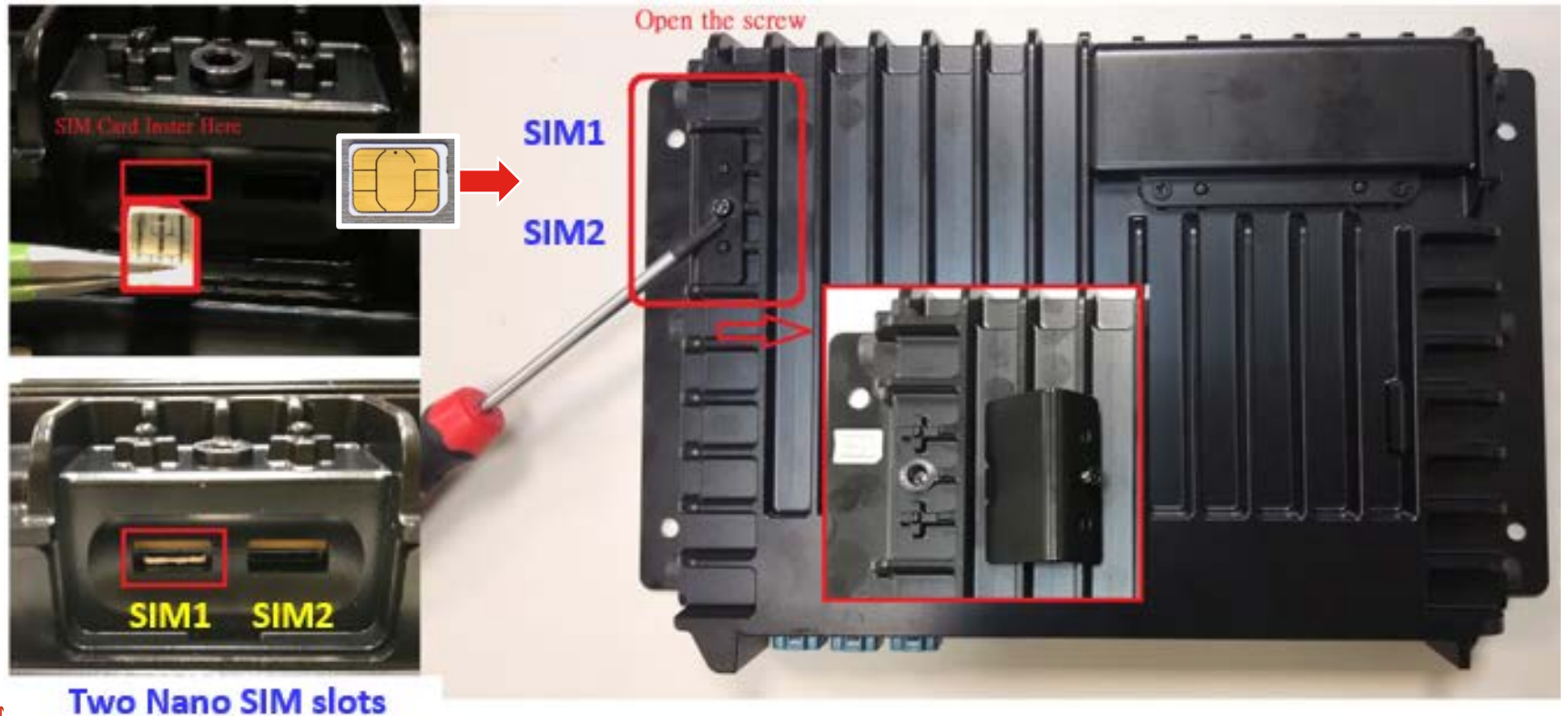
When shipped out, the Fakra cable and the antenna cable have been assembled together. If they are loose, can be identified by the labels on the both cables, as shown in the figure right.



Environment Setup – 2/2

Inserting SIM Cards

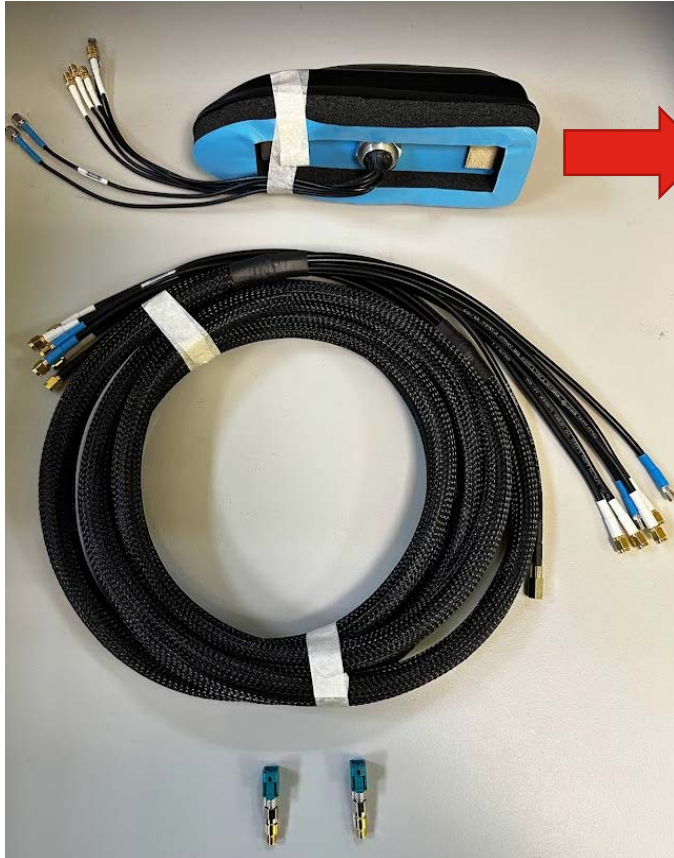
- The OBU supports for two Nano SIM slots.
- Refer to the image below for how to insert SIM cards.
- Pls use a mobile phone to disable SIM PIN before inserting SIM cards.



- SIM1 : 5G NR/
LTE/3G/GSM
- SIM2 : LTE/GSM

Shark fin antenna connection -1/2

- 5G Shark Antenna x 1
- Cable x 1 (4.6 m)
- FAKFA to SMA connector x 2



Sticking on the roof of car



- Smart Antenna x 1
- 1 to 4 Cable x 1

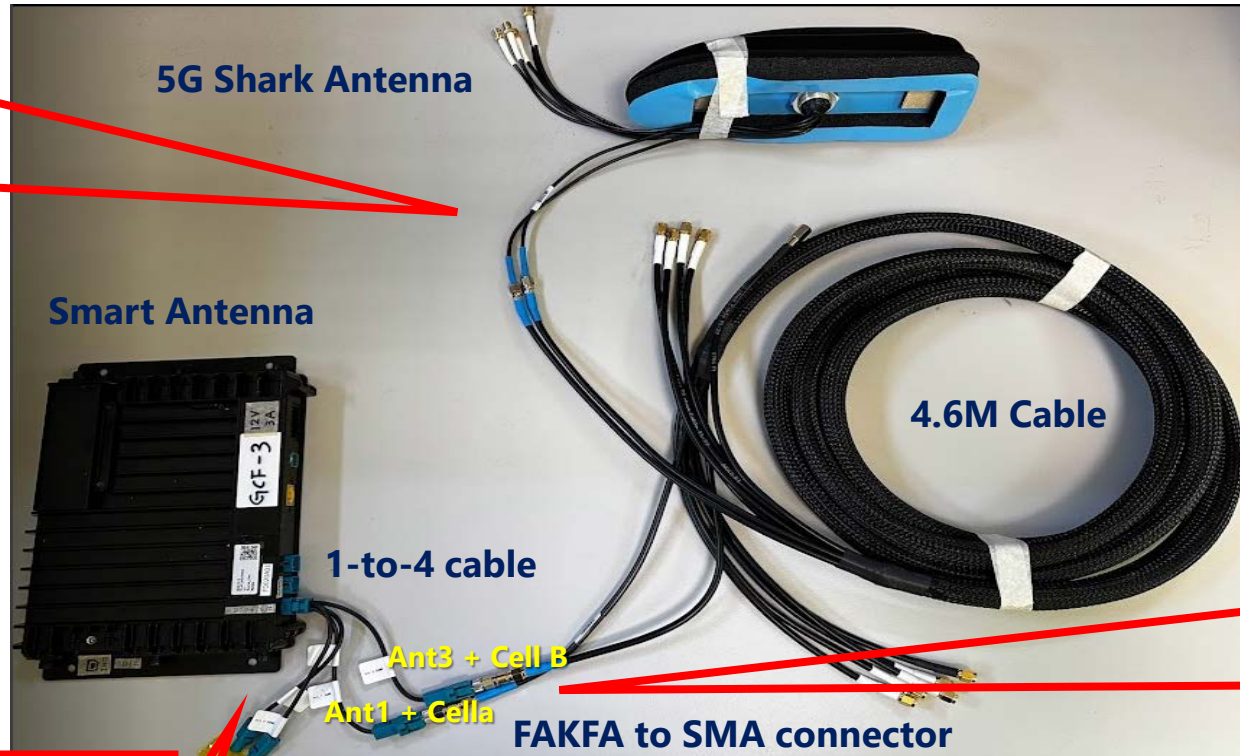


Shark fin antenna connection – 2/2



Step 1 :

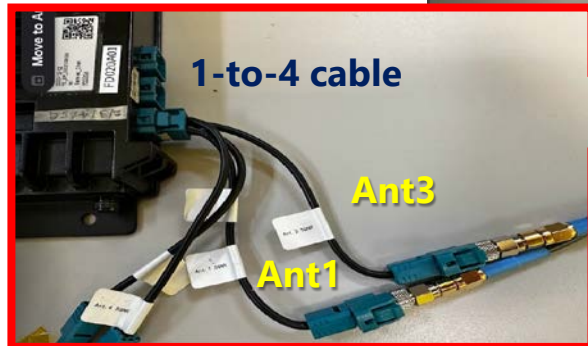
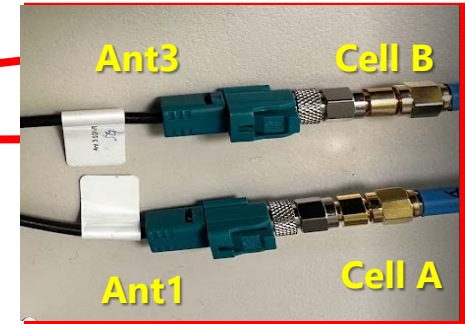
Connect two ports of the cable to 5G Shark Antenna.
(Blue color)



Step 2 :

- Connect 5-meter cable to FAKFA to SMA adapter.

Note: Cell A connects with Ant. 1 and Cell B with Ant. 3.



Step 3 :

- Connect the 1-to-4 cable to the smart antenna;
- On the opposite end, connect the Ant1 and Ant3 of the 1-to-4 cable to the FAKFA to SMA connectors.
- **Noted: Once smart antenna connects with a different antenna, please turn off the smart antenna and turn on again.**



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