Truck Bluetooth TPMS Communication Protocol

Ble ADV data segment format structure： len + type + data

02 01 06	03 03 B0 FB	12 FF AC 00 B3 45 50 03 12 5D 01 0F 10 11 DF 9D EC B3 05

02: (1 bytes) indicates the length of the first small segment of the ADV packet
01： (1 bytes) Flags
06： (1 bytes)General Discoverable,BrEdrNotSupported

03： (1 bytes) indicates the length of the first small segment of the ADV packet
03： (1 bytes)Complete List of 16-bit Service class UUID's
B0 FB： (2 bytes)UUID

12： (1 bytes) indicates the length of the first small segment of the ADV packet
FF： (1 bytes)Manufacturer specific data
AC： (1 bytes)Identification code (fixed)
00： (1 bytes)Item no (fixed)
B3： (1 bytes)Sensor Voltage（B3(179)*0.01+1.22=3.01V）
45： (1 bytes)Pressure data unit Kpa 1FD(256+253)*3.144=1600.296 Kpa
50： (1 bytes)Temperature data unit ℃ （50(80)-55=25℃)
03： (1bytes)sensor status information （00:Normal/sleep 01:Deflation / leakage 02:Inflation 03: Start-up 04:Power-on 05:Wake-up）
12： (1 bytes)TPMS SW version
5D： (1 bytes)persist
01： (1 bytes)Pressure data High The specific calculation formula is described in the barometric pressure section.
0F： (1 bytes)persist
11 DE 9D EC B3 05： (6 bytes)Mac address 05:B3:EC:9D:DE:11Bluetooth Mac address.
The MAC address sequence is arranged from last to first. It is actually a6-byte combination derived from the chip ID (4bytes)and custom content. ID1: ID2: ID3:00:ID3:ID4 binds the first three digits of the MAC address, i.e., ID1, ID2, ID3

state diagram