

Below is the format of the UEFI battery profile.

@boot_images/QcomPkg/Drivers/QcomChargerDxe/BATTERY.PROVISION

[BATTERY_PROFILE] //the beginning of one battery data.

GUI Version: PMI8998GUI - 0.0.0.82

Checksum,D1D9

#7/20/2016 3:30:26 PM

#Ascent_860_82209_0000_3450mAh_averaged_MasterSlave_Jul20th2016

Float_Voltage,4350 //VFLOAT

Nom_Batt_capacity,3450 //NOMINAL BATTERY CAPACITY

Batt_id,60000 //the match battery id impedance

Therm_B,3435 //thermal ntc Beta value

Battery_name,Ascent_860_82209_0000_3450mAh_averaged_MasterSlave_Jul20th2016

Address, Address2, Offset, Data

018, 018, 0, 2C //the battery data, for example, adress 0x18 byte #1 data 0x2C

018, 018, 1, 1F //address 0x18 byte #2 data 0x1F

018, 018, 2, 3F

018, 018, 3, FC

NOTE: This battery profile is provided by QCOM lab, you shouldn't change it.

From the profile you can see the BAT_ID:

Batt_id,60000

Check the cfg file @boot_images/QcomPkg/Drivers/QcomChargerDxe/

QcomChargerConfig_VbattTh_Sdm660.cfg,

#Battery ID Tolerance Percentage 8%

BatteryIdTolerance = 8

Take above data as an example, Batt_id = 60Kohm, Tolerance Percentage is 8%,

Then the range is 55.2Kohm to 64.8Kohm, when the battery id impedance is within this range, then it's matched.