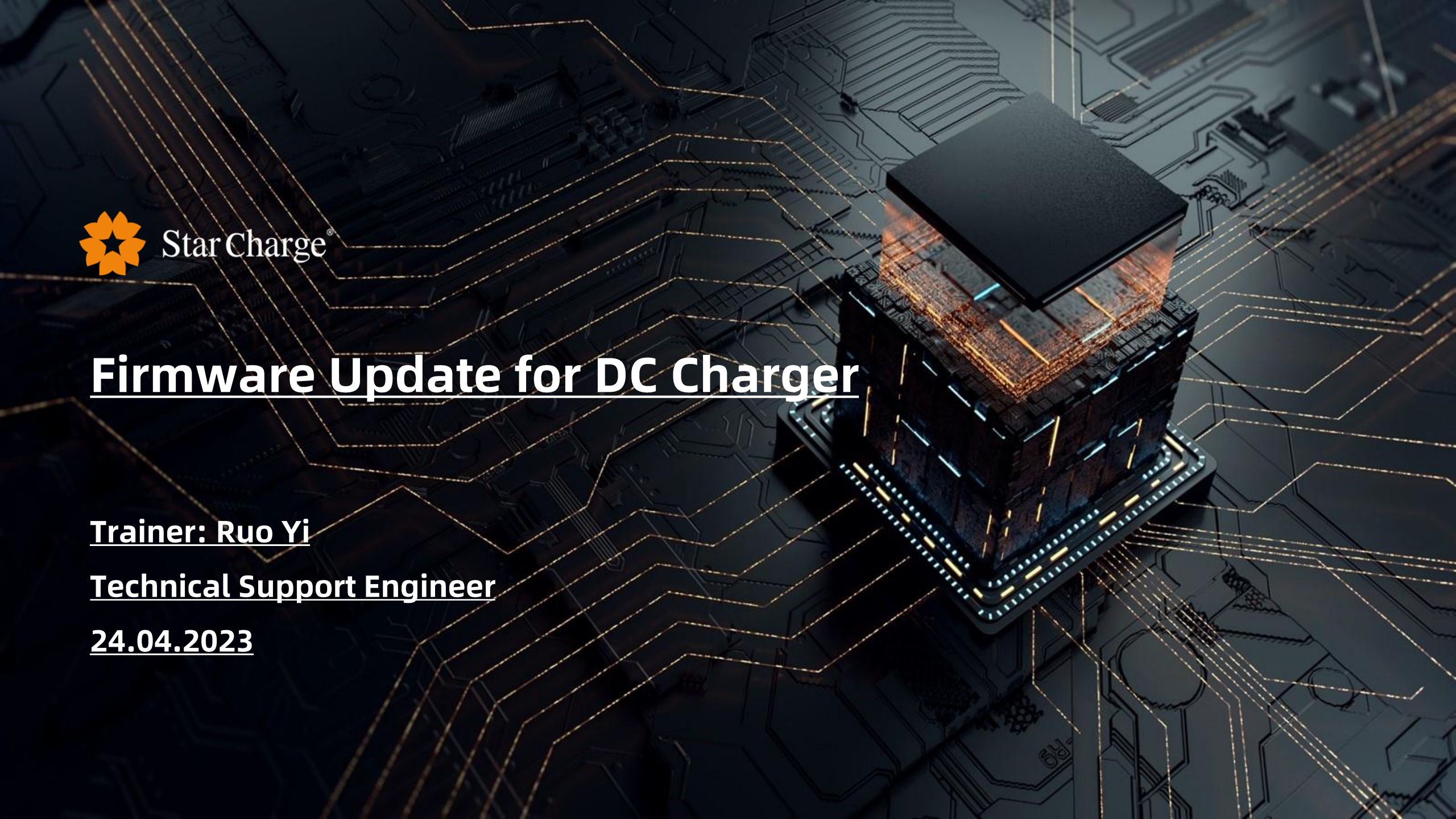


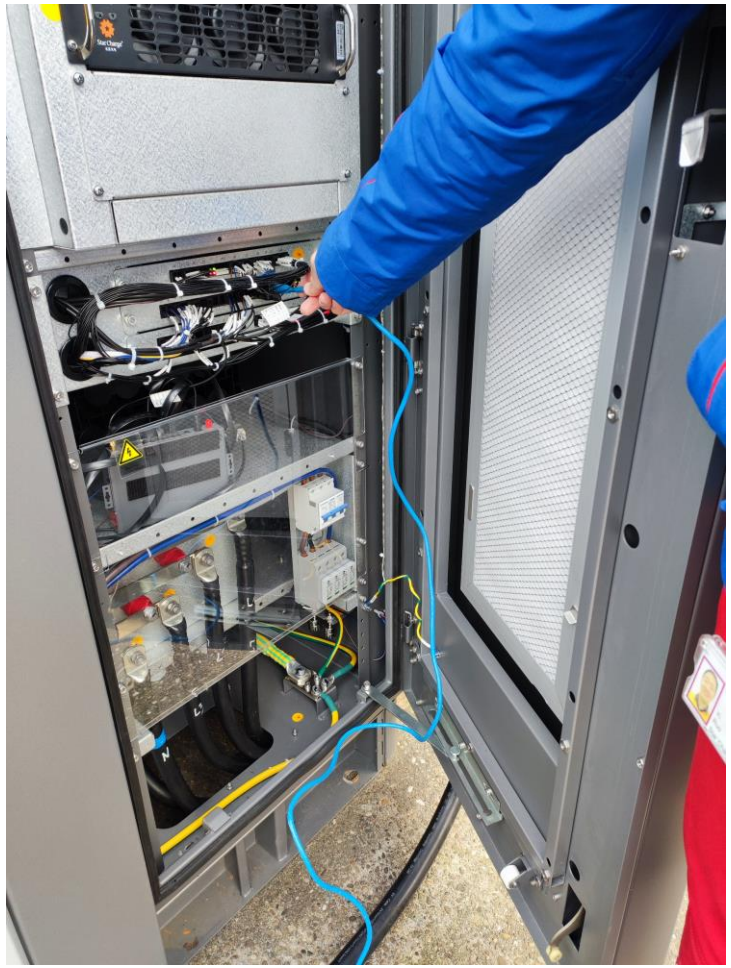
Firmware Update for DC Charger

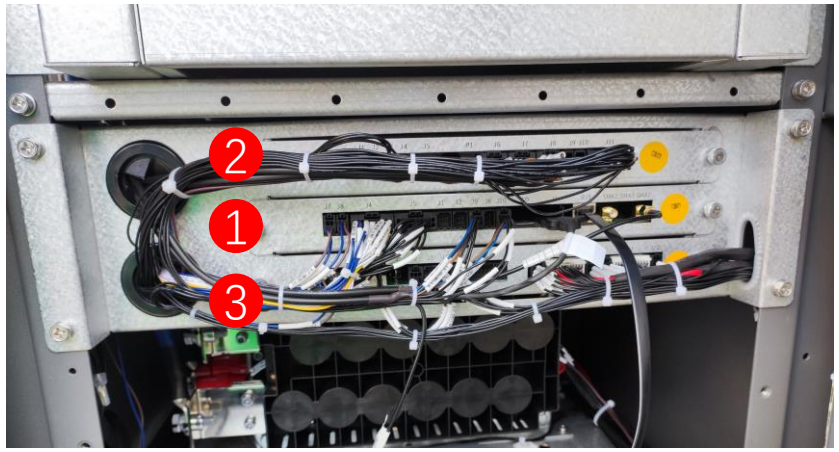
Trainer: Ruo Yi

Technical Support Engineer

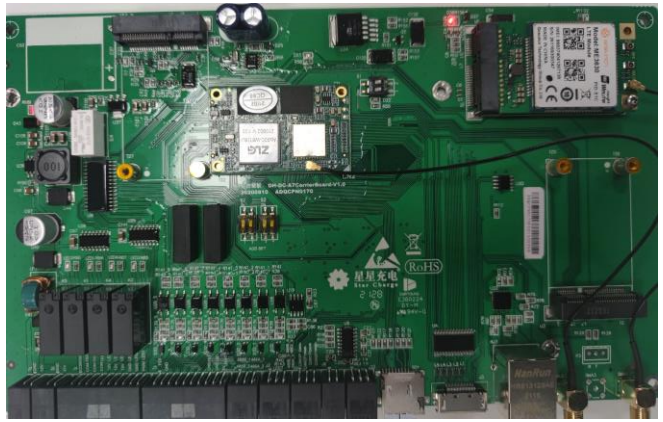
24.04.2023

Control boards that require firmware update

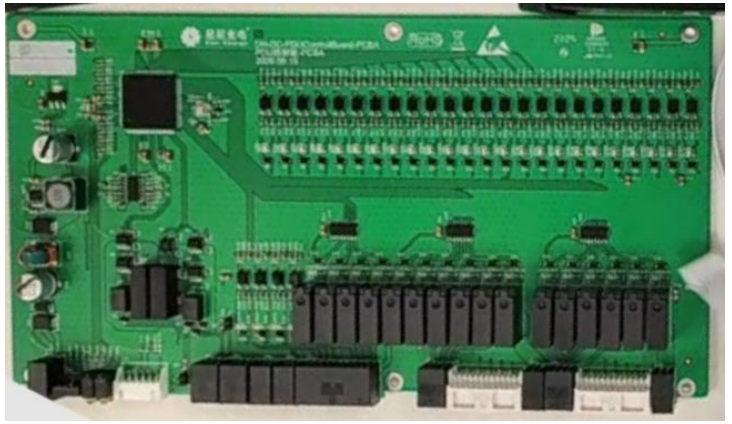




2 M4 Control Board

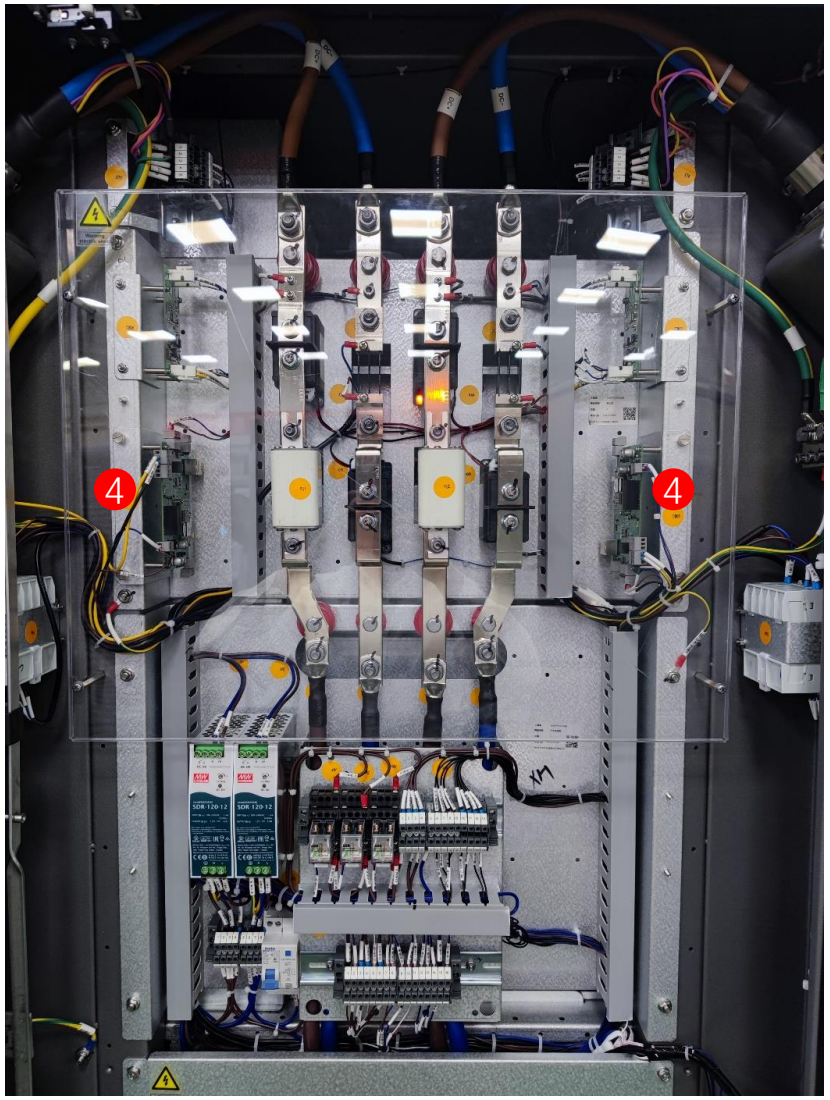


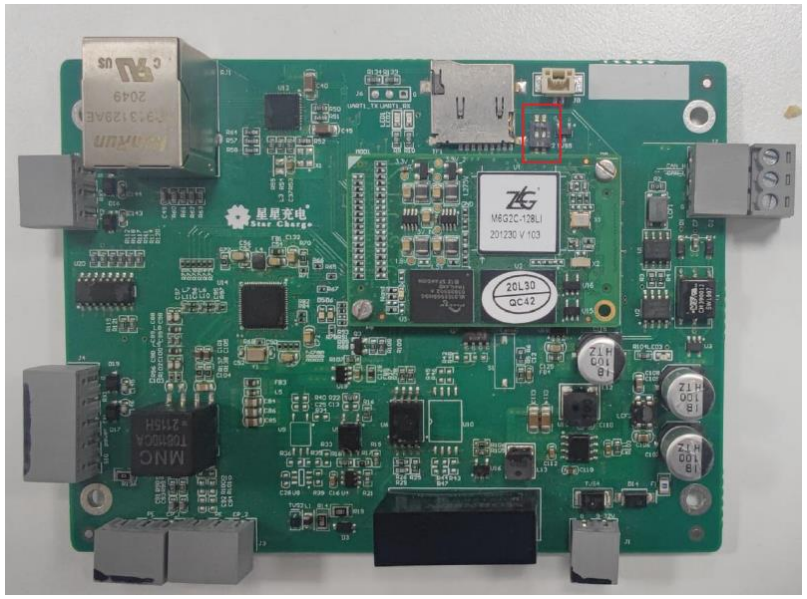
1 A7 Main Board



3 PDU Control Board

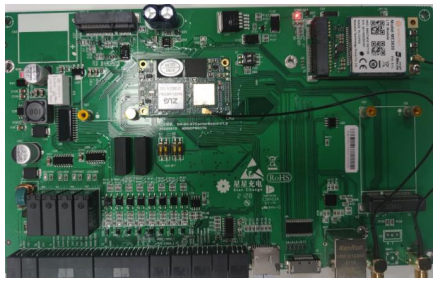
Control boards that require firmware update





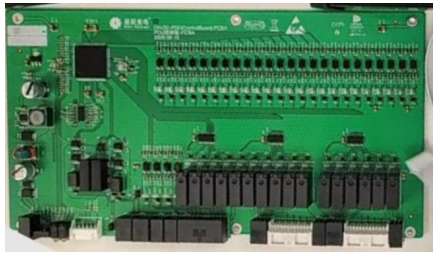
4 SECC Board

Control boards that require firmware update

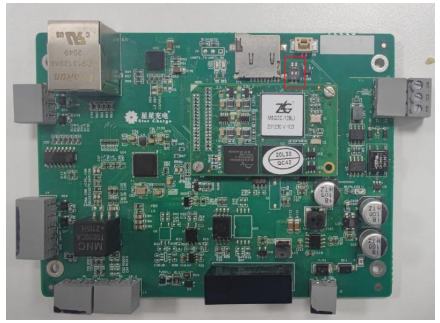


1. A7 Main Board: backend communication, configuration, display UI & diagnostic log

2. M4 Control Board: output voltage and current control



3. PDU Control Board: power module distribution control



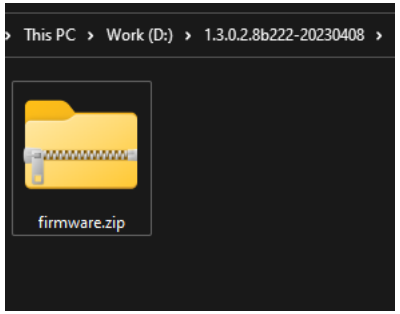
4. SECC Board: communication between EV and charger

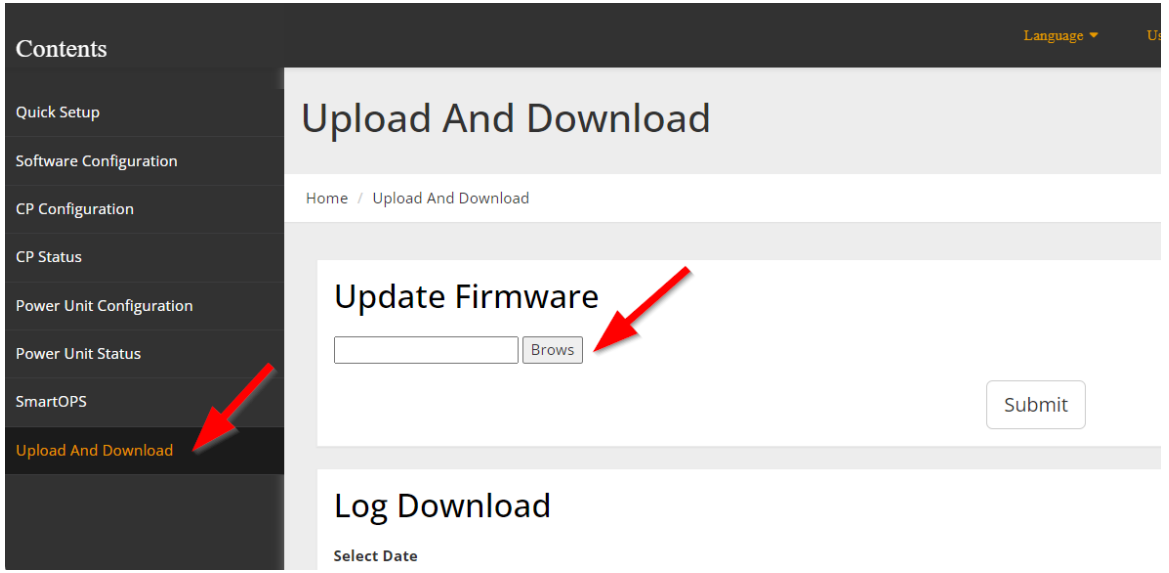
Update methods

Star Charge®

Method 1: Upload firmware.zip

- This is the regular and easiest method to update firmware.
- Use Ethernet cable to connect charger and laptop → open configuration web panel → go to upload page → select firmware zip file and upload → Update finish
- This can update A7 mainboard, M4 control board and SECC board.
- The firmware.zip can be also remotely updated via OCPP backend.





Update methods

Method 2: Use dedicated tool to directly flash each board separately

- In some situations (complex troubleshooting, system software crashes, big software structure changes), using regular method is not possible to update firmware.
- A7 main board: use SD card
- M4 control board: use J-Link
- PDU control board: use J-Link
- SECC board: use SD card

J-Link

SD

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