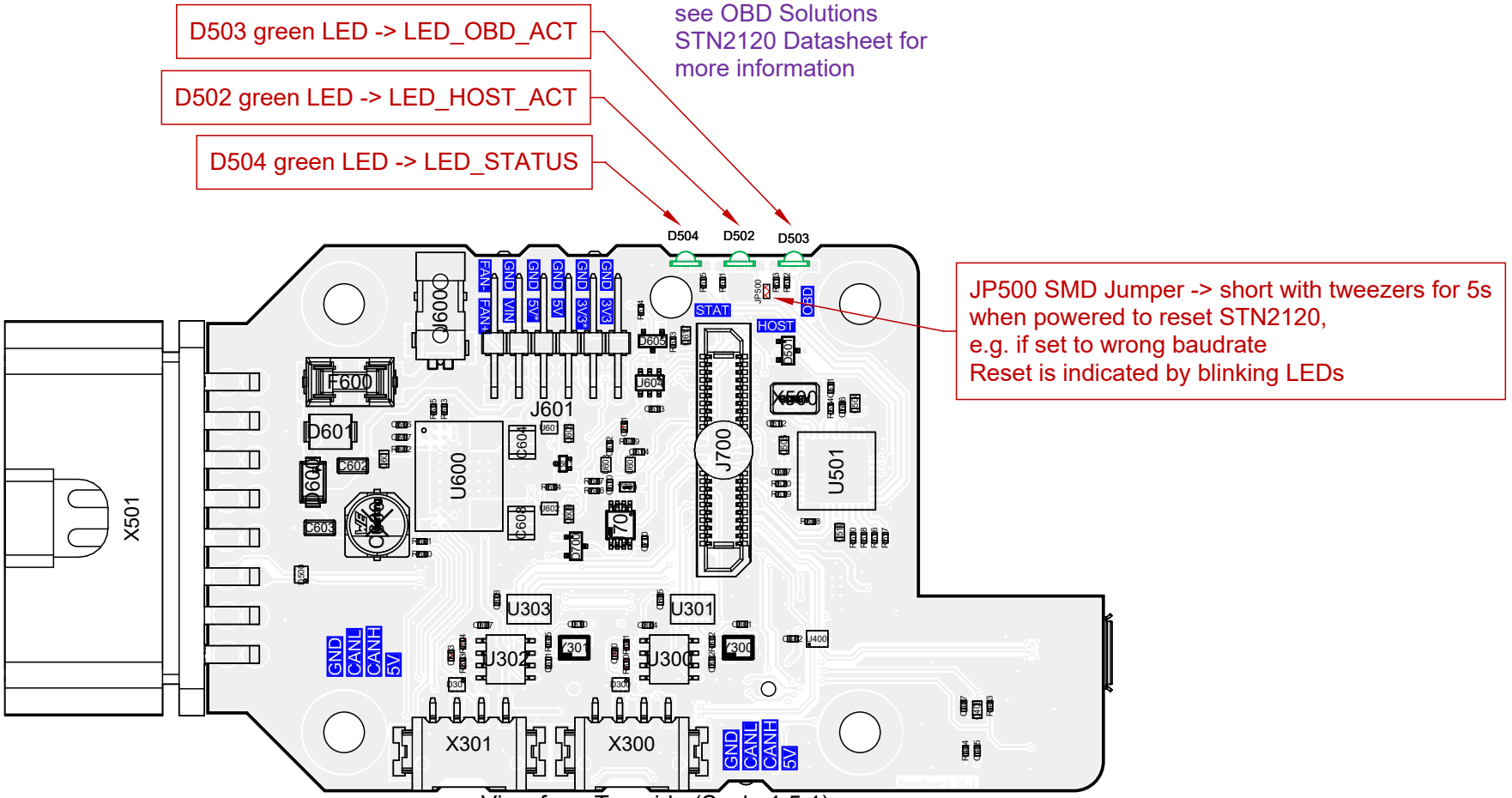


View from Top side (Scale 1.5:1)

SW500 push-button to generate wake-trigger
for STN2120 OBD chip it "emulates"
higher battery voltage.
Needs to be configured in STN2120 ->
read voltage while button is pressed to set threshold.
(see programming manual STN2120)
Works with S601 in left position

S601 slide switch to select between
low power mode and lowest power mode

Pos 1-2, right: for low power mode
Pi can be started via SW600 or RTC interrupt

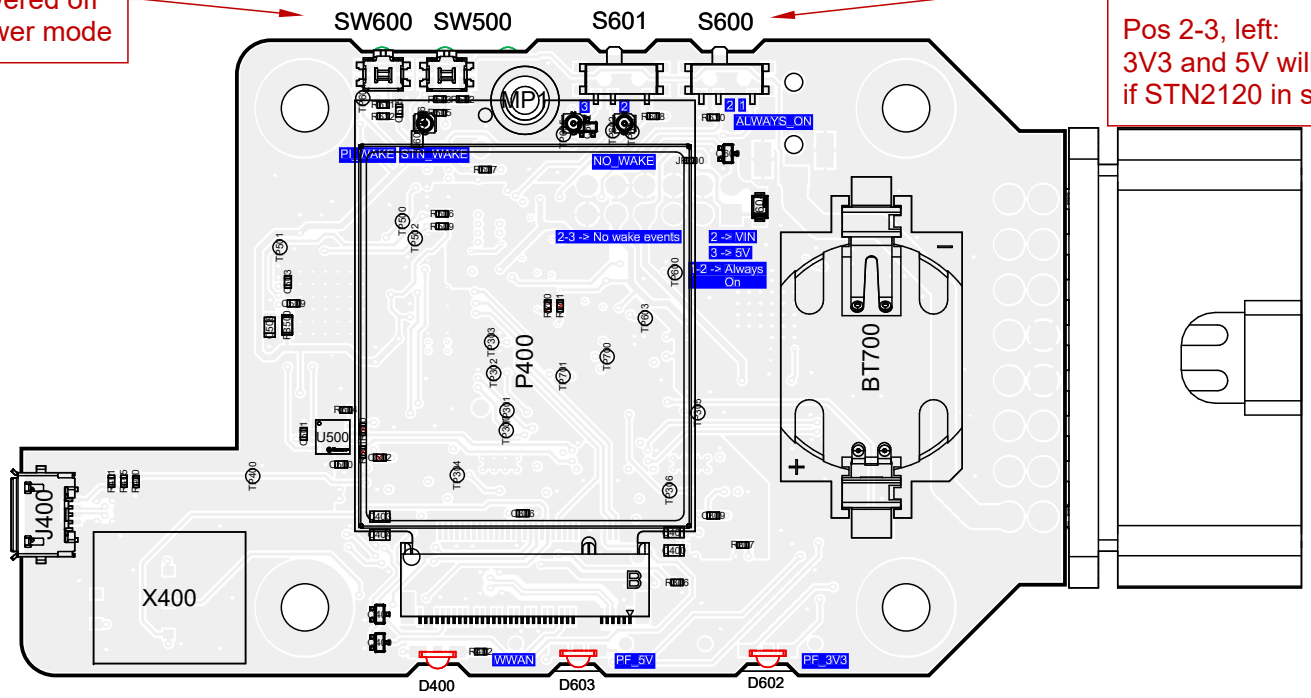
Pos 2-3, left: for lowest power mode
Pi can be started indirect via STN2120 chip e.g. SW500 as wake-trigger
or toggling S600 this which will bring back power to 3V3 and 5V

S600 slide switch

Pos 1-2, right:
3V3 and 5V stays on

Pos 2-3, left:
3V3 and 5V will be switched off
if STN2120 in sleep and Pi powered off

SW600 push-button to start Pi,
works only when Pi is powered off
and S601 is set to low power mode



D400 red LED -> WWAN activity

D603 red LED -> lights up when power
regulation on 5V rail fails

D603 red LED -> lights up when power
regulation on 3.3V rail fails

EEPROM setting for low/lowest power mode
WAKE_ON_GPIO=0, POWER_OFF_ON_HALT=1

https://www.raspberrypi.com/documentation/computers/raspberry-pi.html#raspberry-pi-4-bootloader-configuration

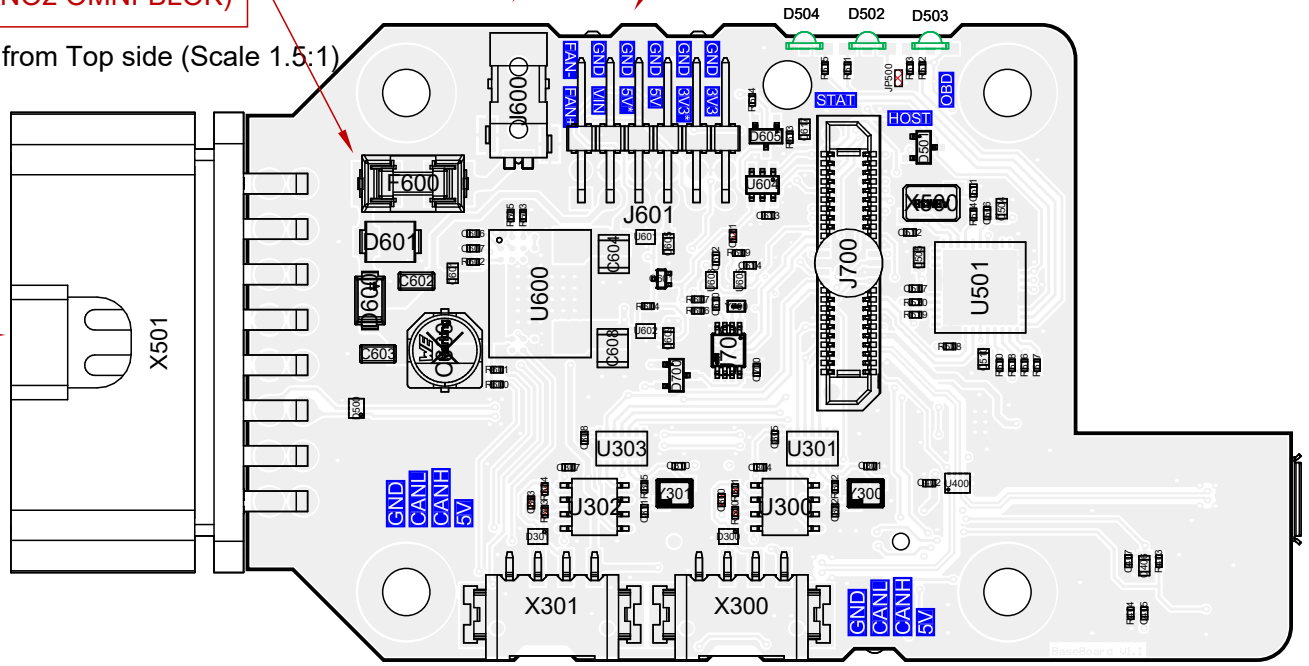
J600 Power connector, max. 24V DC
(if not powered via OBD-Port)
Dimensions: inner 0.75mm, outer 2.35mm, length 9mm

J601 pin-header to power external devices and controllable fan
lower row: FAN-, GND, GND, GND, GND, GND
upper row: FAN+, VIN, 5V*, 5V, 3V3*, 3V3
* permanently on

F600 Fuse 2A SlowBlow
(Littlefuse NANO2 OMNI-BLOK)

View from Top side (Scale 1.5:1)

X501 OBD-Port Connector

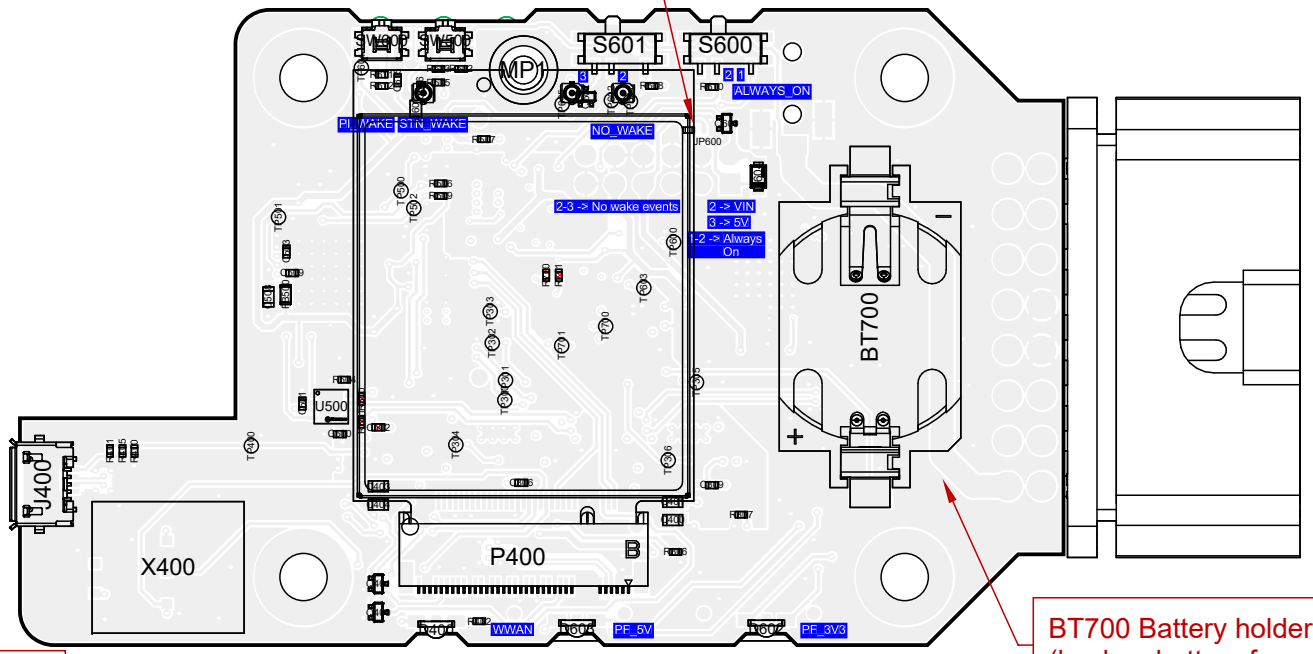


X300, X301 CAN-FD connectors
Pinout: GND, CAN_L, CAN_H, 5V

Matching connector
Phoenix-Contact PTSM 0,5/ 4-P-2,5
MgfNr: 1778858

JP600 Select FAN+ voltage
1-2 -> VIN (default)
1-3 -> 5V

View from Bottom side (Scale 1.5:1)



J400 microUSB Port
to update RPi eeprom

X400 SIM card holer
for Nano-SIM (4FF)

P400 LTE card connector
e.g. Sierra Wireless EM7455

BT700 Battery holder for CR2032 cells
(backup battery for real time clock)