



Revision history

2.0.0-1 (2022-04-21):

- complete re-design around the ESP32-PICO-D4 microcontroller.
- improve CCD-bus transceiver circuits.
- add PCI-bus transceiver circuits.
- improve SCI-bus routing switches.
- add switchable bootstrap and programming voltage sources (12.0V/20.0V) to SCI-bus.

2.1.0-1 (2022-05-26)

- remove feedforward capacitor from boost converter.
- adjust programming voltages slightly higher than nominal (D15-D22 diode voltage drop).
- make VPP boost converter permanently enabled.
- replace SCI-bus switches.
- change I2C port expander (U16) device address.
- increase some resistor values to lower power dissipation.

J1962/OBD2 connector pinout	
Pin	Function
1	J1850 VPW (PCI)
2	J1567 CCD+
3	Chassis ground
4	Signal ground   JP1
5	J2610 SCI-A RX (PCM)   VBB   VPP
6	J2610 SCI-A TX (PCM)   J2610 SCI-A TX (TCM)
7	J2610 SCI-B RX (PCM)   VBB   VPP
8	J2610 SCI-B TX (PCM)   VBB   VPP
9	J2610 SCI-B RX (TCM)   VBB   VPP
10	J2610 SCI-B TX (TCM)   VBB   VPP
11	J1567 CCD-
12	J2610 SCI-B RX (PCM)   VBB   VPP
13	J2610 SCI-A RX (TCM)   VBB   VPP
14	J2610 SCI-B TX (TCM)
15	J2610 SCI-B TX (TCM)
16	Battery power (+12V)

Table 1.