

# Sevcon Gen4 Setup for Display Interfaces

## ThunderStruck Motors – January, 2023

The ThunderStruck Motors Canbus Translator and other display interfaces require communication settings added to the Sevcon Gen4 controller. Using the Sevcon DVT software and interface, follow the procedure and screenshots below to add these settings.

- Open DVT
- Enter DVT Helper
- Select the TPDO/RPDO tab
- Modify TPDO 3, 4, and 5 and adjust the order of each per the screenshots below
- Write the new PDOs and read them to verify
- Select the Tree tab, and set the Bit Rate to 500kb per the screenshot below

TPDO 3	
Cob-ID for this PDO:	0x00000411
Syncs Per Transmit:	1
Bits: 16   Adr: 0x4602,31   Voltage limit circle magnitude	
Bits: 16   Adr: 0x4602,32   Maximum fluxing current	
Bits: 16   Adr: 0x4602,33   Maximum iq allowed	
Bits: 16   Adr: 0x4600,3   Motor Temperature 1 (Measured - T1)	

TPDO 4	
Cob-ID for this PDO:	0x00000271
Syncs Per Transmit:	1
Bits: 16   Adr: 0x5100,3   Capacitor Voltage	
Bits: 8   Adr: 0x5100,4   Heatsink Temperature	
Bits: 16   Adr: 0x5100,2   Battery Current	
Bits: 16   Adr: 0x6071,0   Target torque	

### TPDO 5

Cob-ID for this PDO:

Syncs Per Transmit:

Bits: 8 | Adr: 0x6800,1 | Digital Inputs 1..8 states  
Bits: 32 | Adr: 0x606c,0 | Velocity

Main Tree Input / Output TPDO / RPDO

**Physical layer settings**

Node ID

Bit rate

Search

- Motor
- Configuration
- Status
- Other

dvt\_ob\_search

### Object Search

- 0x5900 2 (Bit rate)