Start-Up Kit QCI-SKB-D2-IGK Setup Instructions

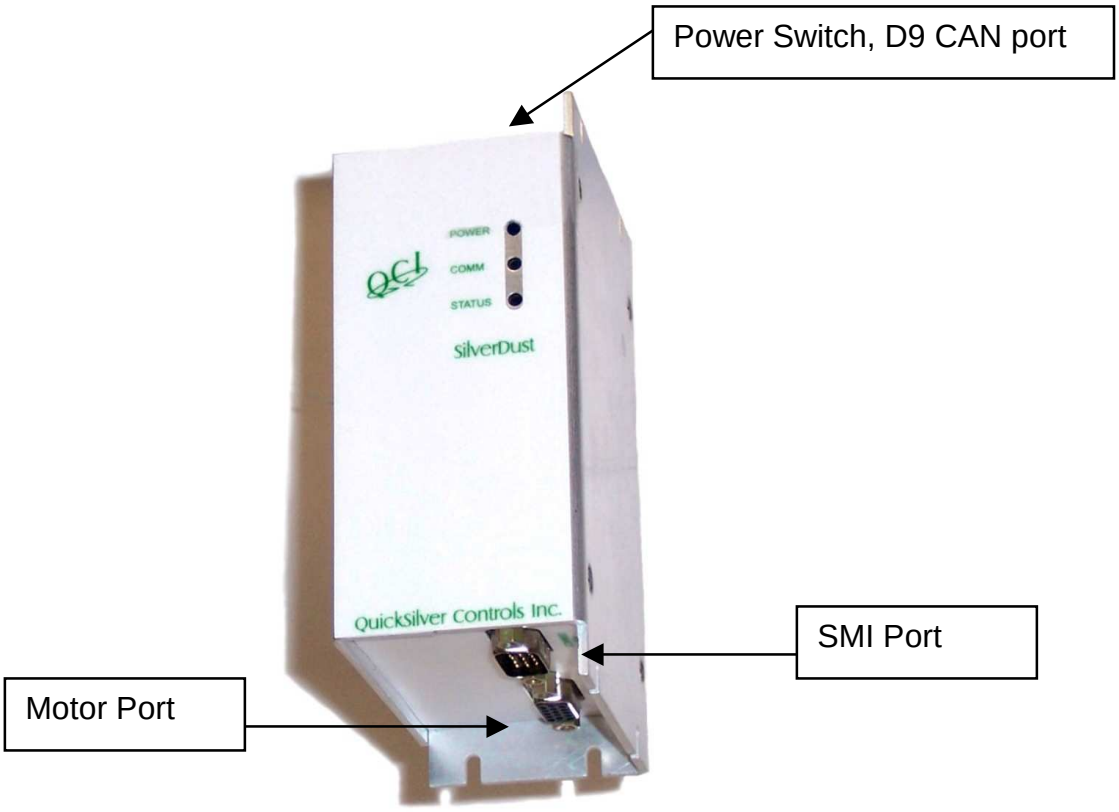
This SilverLode Start-Up Kit provides a simple means to evaluate and prototype a SilverDust D2 (QCI-D2-IGK) controller/driver (included). This SilverDust features a simple, compact design to save cabinet space and cost.

This kit includes:

Note: Motor Not Included

- SilverDust IGK (QCI-D2-IGK) & Datasheet (QCI-DS0023)
- Start-Up Kit Instructions (this document) (QCI-TD065)
- QuickControl® Software CD (QCI-QC)
- User Manual & Command Reference (QCI-SLM)
- Communication Cable (QCI-C-D9M9F-6)
- 4’ DB15HD Motor I/F Cable (QCI-C-D15P-D15S-4)
- Basic Breakout (QCI-BO-B)
- D9 CAN Breakout (QCI-BO-K)
- DIN Rail Bracket (QCI-DIN1)

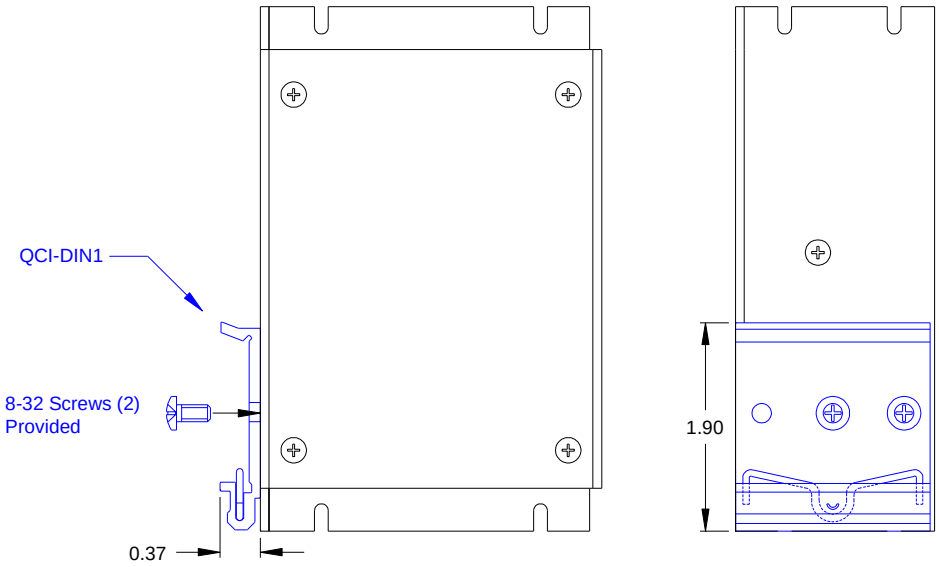
I-Grade SilverDust (QCI-D2-IGK)



Connections refer to the I-Grade SilverDust D2 (IGK) controller/driver - used with NEMA 17 or 23 frame motors.

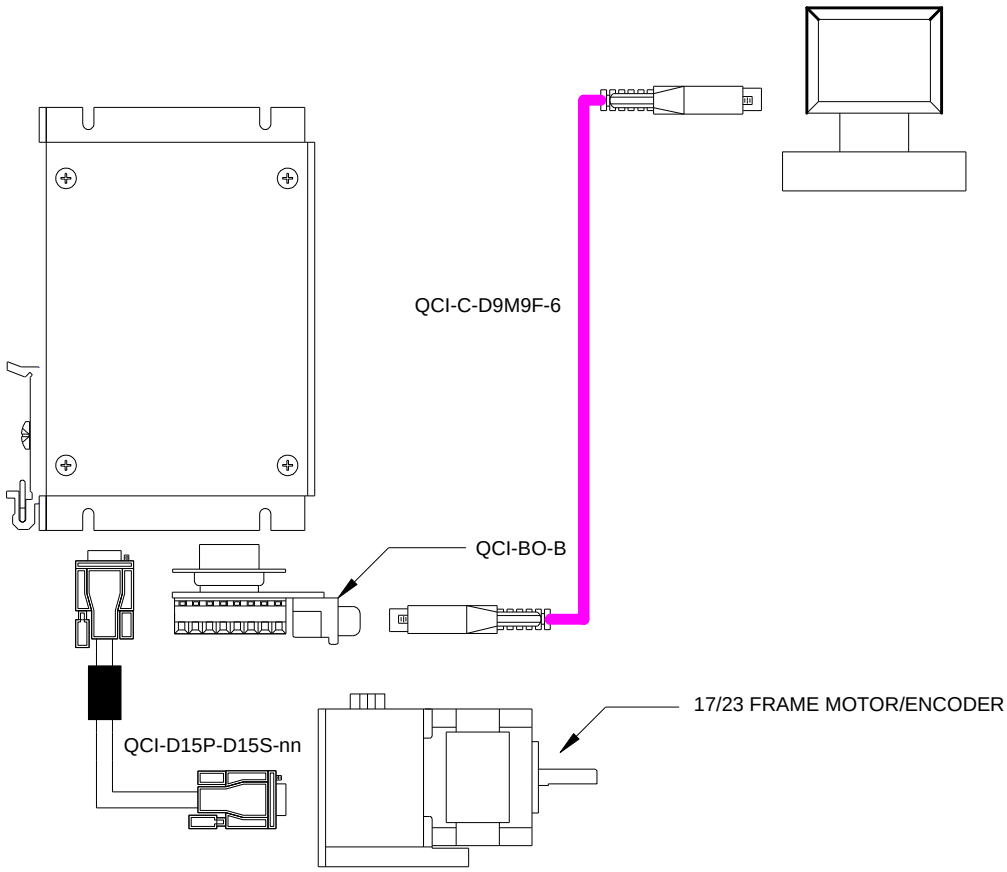
Warning: Make sure the power supply is OFF before making any connections.

1. Attach the Din Rail Bracket to the back panel.



2. Connect the SilverDust D2 (IGK) controller/driver to a 17 or 23 frame motor/encoder and PC using the motor interface cable (QCI-C-D15P-D15S-nn), basic Breakout (QCI-BO-B) and the Communication Cable (QCI-C-D9M9F-6).

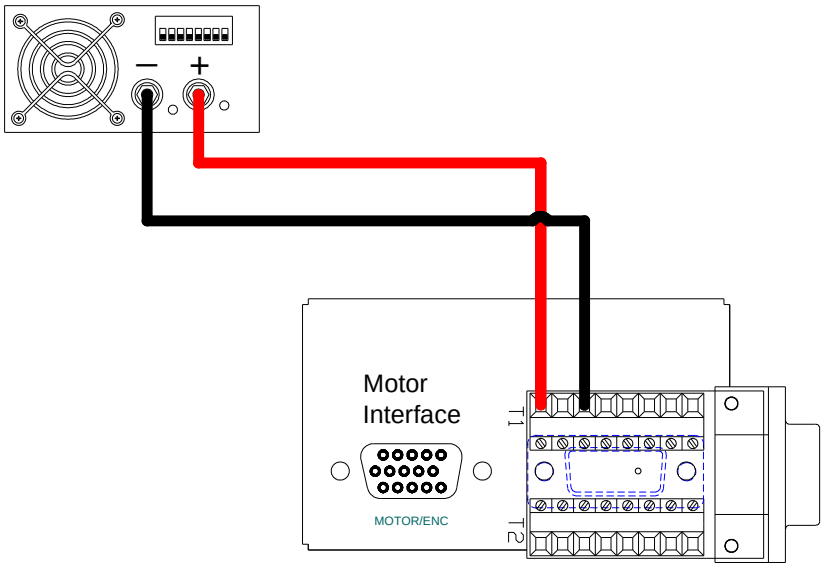
SilverDust(IGK) Controller/Driver



a. Attach the pin side of the motor interface cable to the SilverDust IGK DB15.
b. Attach the socket side of the motor interface cable to the motor/encoder DB15.
c. Attach the QCI-BO-B to the SilverDust IGK SMI port.
d. Attach the pin side of the communication cable to the QCI-BO-B.
e. Attach the socket side of the communication cable to the PC COM Port.

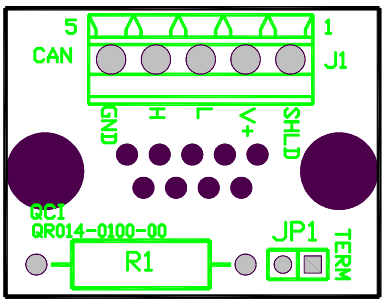
2. Connect the power supply.

   *Power supply wires not provided.



   a. Wire the positive terminal of the power supply to the QCI-BO-B breakout V+ and power supply negative to V-.
   b. On the SilverDust D2 IGK, turn the power switch up (ON).

3. Connect QCI-BO-K to the IGF D9 CAN port on the top of the controller.



The CAN bus connection is NOT isolated, but does include transceivers which have an extended +/- 80v fault protection range. The CANopen® communications protocol allows the unit to function as a master, slave, or peer on a CANopen® network. See the SilverLode CANopen User Manual for details on the CANopen protocol. This protocol operates simultaneously and independently from the standard serial protocols.

Note that a 120 ohm ½ W termination resistor is needed at each end of the CAN network (only two per system). This termination is not provided within the controller, but is provided on the QCI-BO-K breakout. It must be jumpered by the user to enable. The QCI-D2-IGK uses the common power/communications ground as the CAN ground. Do not connect conflicting grounds within the system. No external CAN power is require by the unit. If units are sharing power and ground, only the CANH and CANL (labeled H and L) need be connected.

4. Install QuickControl® and initialize servo (see Getting Started in the User Manual).