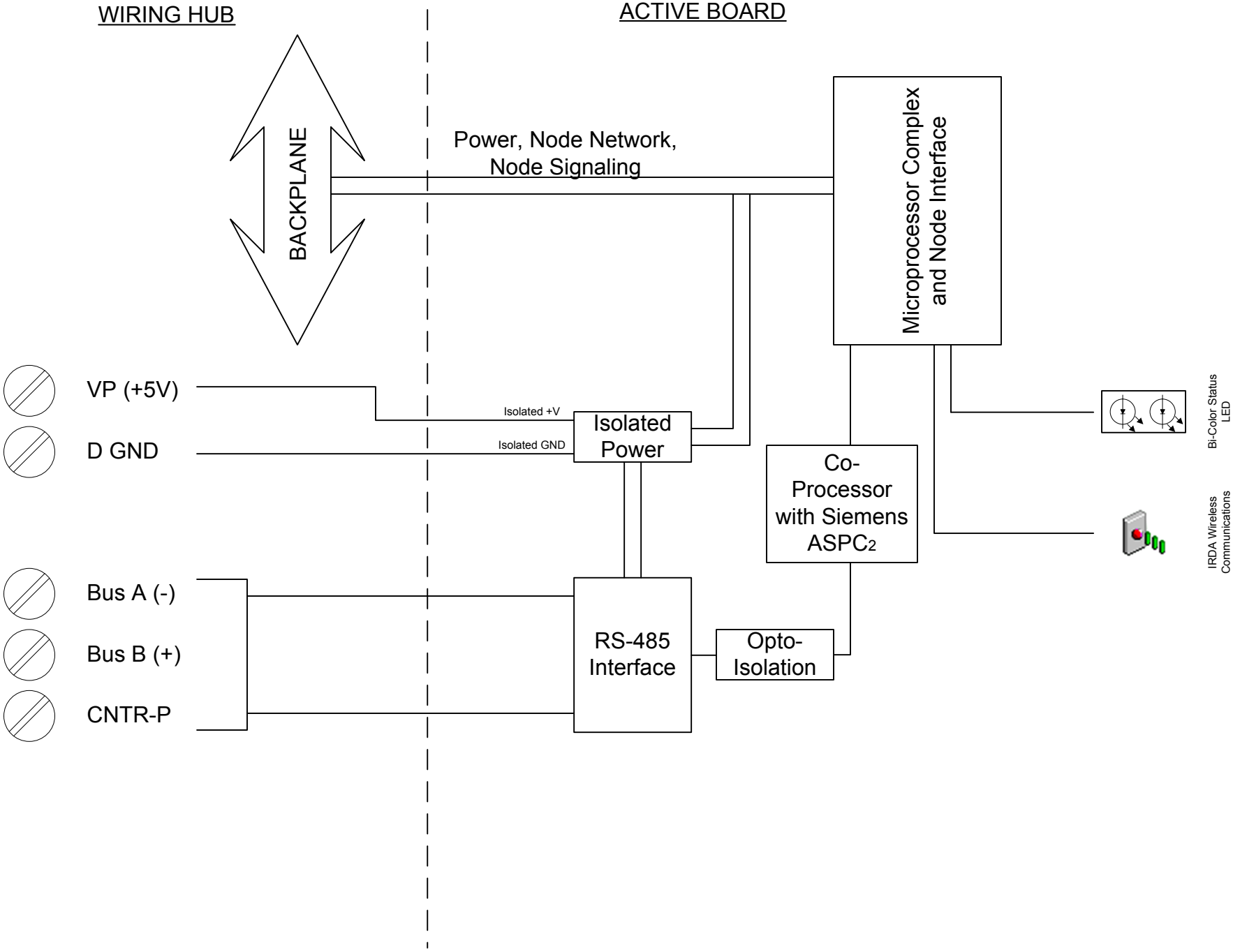
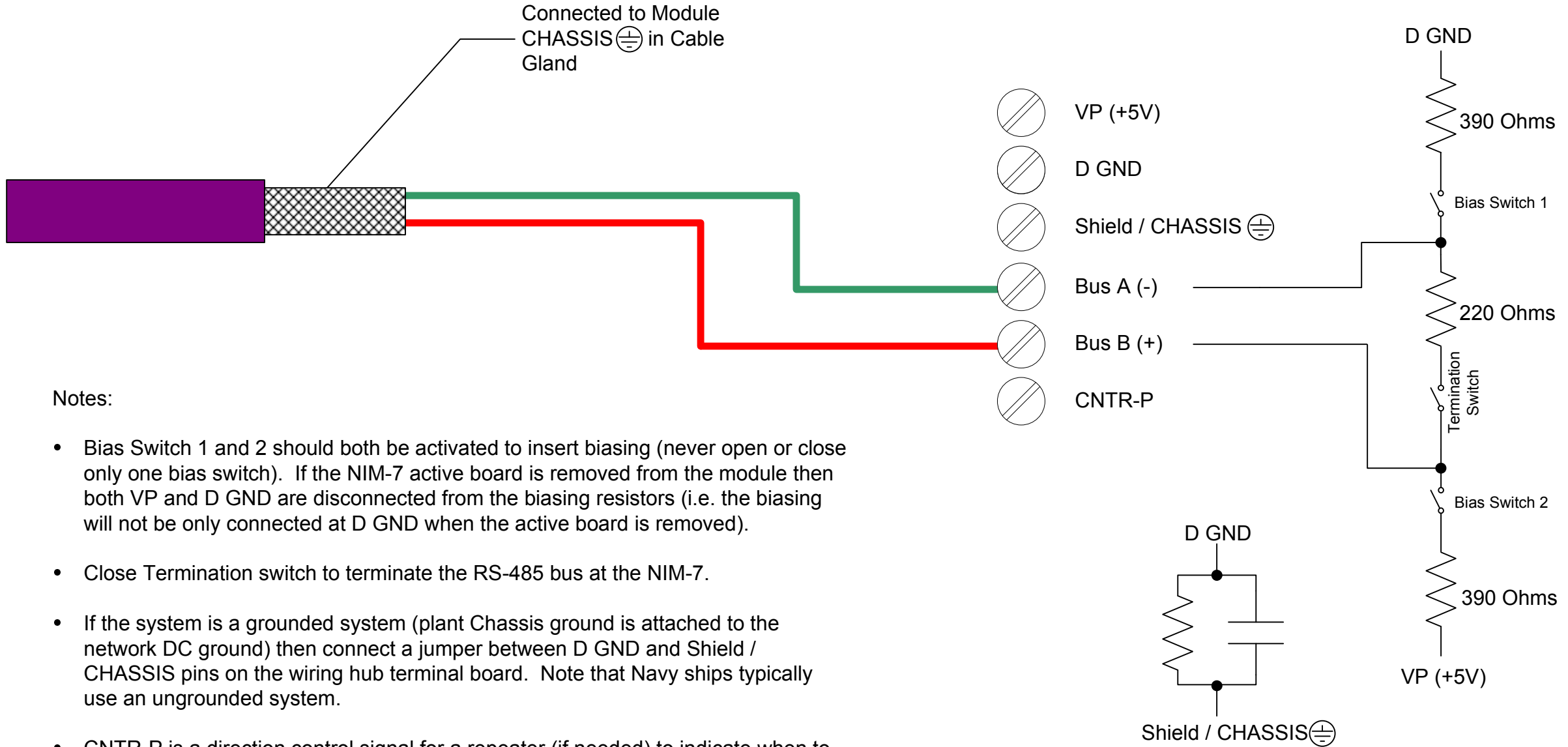


Profibus DP Network Interface Module, Type 7 (NIM-7) Module Topology



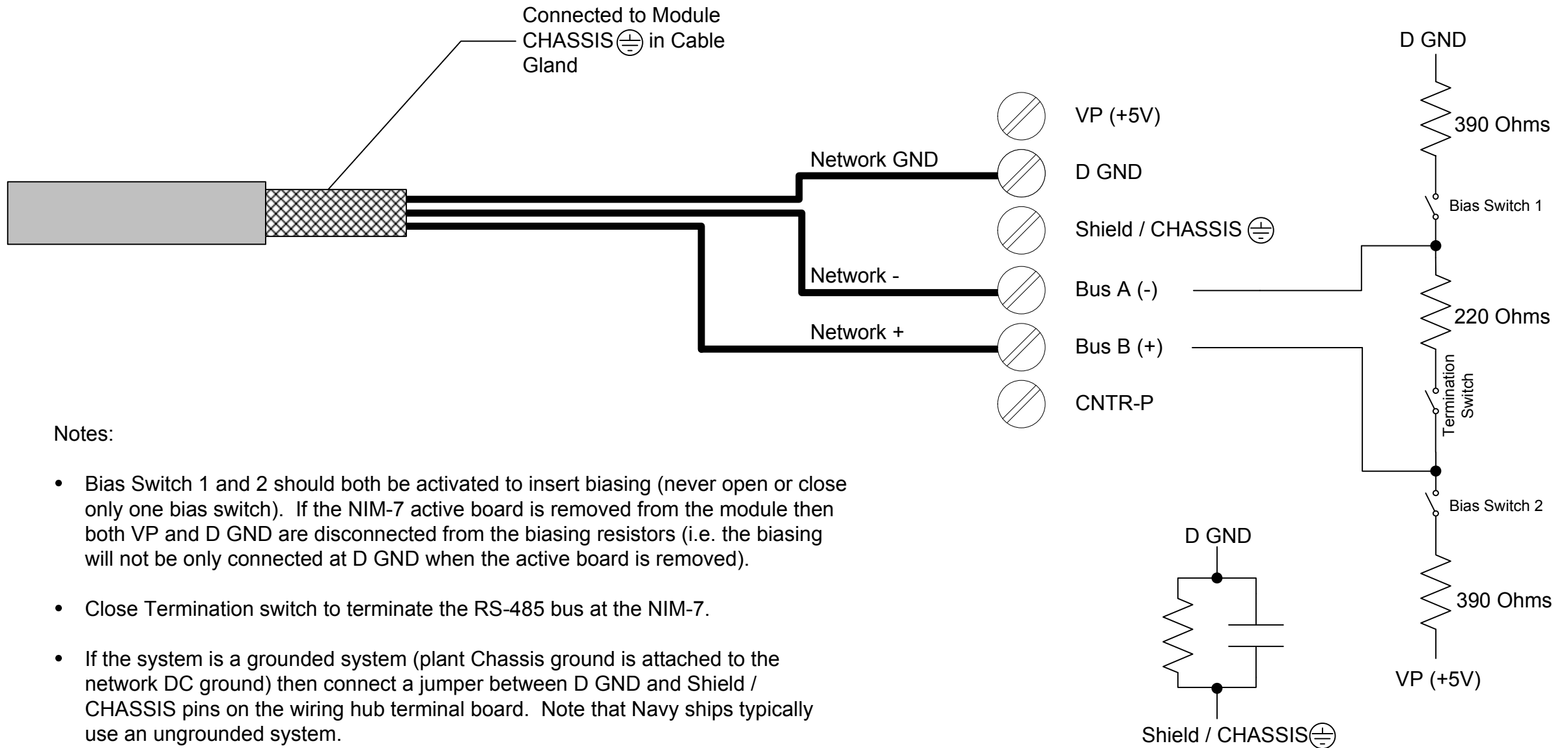
Wiring Connection Diagram Using Copper PROFIBUS Standard Bus Cable



Notes:

- Bias Switch 1 and 2 should both be activated to insert biasing (never open or close only one bias switch). If the NIM-7 active board is removed from the module then both VP and D GND are disconnected from the biasing resistors (i.e. the biasing will not be only connected at D GND when the active board is removed).
- Close Termination switch to terminate the RS-485 bus at the NIM-7.
- If the system is a grounded system (plant Chassis ground is attached to the network DC ground) then connect a jumper between D GND and Shield / CHASSIS pins on the wiring hub terminal board. Note that Navy ships typically use an ungrounded system.
- CNTR-P is a direction control signal for a repeater (if needed) to indicate when to switch between transmit and receive.
- VP (+5V) and D GND are NIM-7 generated power outputs for the NIM-7 isolated RS-485 interface and external devices (such as a repeater).
- PROFIBUS RS-485 network ground is connected through cable shield braid.

Wiring Connection Diagram Using Copper Multi-Conductor Network Cable



Notes:

- Bias Switch 1 and 2 should both be activated to insert biasing (never open or close only one bias switch). If the NIM-7 active board is removed from the module then both VP and D GND are disconnected from the biasing resistors (i.e. the biasing will not be only connected at D GND when the active board is removed).
- Close Termination switch to terminate the RS-485 bus at the NIM-7.
- If the system is a grounded system (plant Chassis ground is attached to the network DC ground) then connect a jumper between D GND and Shield / CHASSIS pins on the wiring hub terminal board. Note that Navy ships typically use an ungrounded system.
- CNTR-P is a direction control signal for a repeater (if needed) to indicate when to switch between transmit and receive.
- VP (+5V) and D GND are NIM-7 generated power outputs for the NIM-7 isolated RS-485 interface and external devices (such as a repeater).