1. Incoming Cable screen connects only to the Chassis Ground on the Backplane. Studs on the Backplane are used to connect this ground to the chassis itself.

2. Circulating current in the Power Ground will generate voltages between signal ground and chassis ground. If we connect the cable screen through the backplane onto the module, then currents may flow into the cable screen.

3. The alternative grounding arrangement of a star connection separates signals from their return currents and provides a large loop for Electromagnetic pick-up. (See Module grounding schemes #1 below) I prefer grounding signal returns locally, scheme #2.
Module Grounding Schemes

Scheme 1: Star-ground connection
- Lower common-ground impedance
- But a long path for signal return currents, increases E.M. coupling

Scheme 2: Local ground connection
- Shorter paths for signal return currents, giving small Loop area and lower EM coupling.
- But currents in Power ground plane generate noise between local signal ground and Power ground