

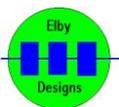
Installation Notes for EuroSynth and Compatible Products

Installing Modules

- 1) Always turn the systems power off and disconnect the power cable before opening your system and installing or removing modules.
- 2) Ensure that your system has sufficient spare power capacity to power the module. EuroSynth modules are designed to run with a +/-12VDC power supply but will safely operate up to +/-15VDC
- 3) All EuroSynth modules use a boxed header for the module power connector and also for the busboard output connector. Pin 1 of both connectors is always -12V.
- 4) ALWAYS check your cables before connecting to your system. Check that the power cable is correctly manufactured with Pin 1 of both end connectors being connected together - see Figure 1.
- 5) Start by plugging the modules power cable in to a suitable power outlet ensuring that the connector is firmly mated.
- 6) Bring the free end of the cable out and connect to the modules power socket again ensuring a firmly mated connection.
- 7) Double-check the connection at both ends.
- 8) Mount the module checking that the power cable does not foul on any component parts of the module and any adjacent modules. Also check that the cable sits neatly inside the case and is clear of any power supply components on any power supply.
- 9) Reconnect the systems power cable and turn your system on.
- 10) You should immediately check that all your modules have powered up and are operating correctly. If you notice any strange behavior, turn off your system and check for any cable mistakes.



Figure 1 - Correctly terminated IDC cable



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Installing Powered Busboards

Introduction: Powered busboards are DC-DC converters used to convert a DC source from one voltage to another. Power busboards may include multiple DC-DC converters to accommodate a number of different voltage levels and involve the use of high-frequency switchers.

- 1) Powered busboards can be mounted in any direction.
- 2) There should be at least 5mm insulation distance around each busboard.
- 3) Allow adequate ventilation to prevent overheating.
- 4) There should be a minimum of 2cm clearance above the top face of the busboard to allow free thermal ventilation of the power circuits.
- 5) Please do not install powered busboards in places with an ambient temperature higher than 40°C or near a fire source.
- 6) Please do not install powered busboards in places with high moisture or near water.
- 7) Avoid running power supply cables under the busboard or carrier plates if used.
- 8) The recommended main input/output wires are:-

Conductor Area	0.5mm ²
Number of Strands	16
Strand Size	0.2mm

- 9) The main input/output connectors are 6.35mm x 0.81mm (0.25" x 0.032") tabs.
- 10) Output current and output wattage must not exceed the rated values on the product datasheet.

