



Instructions for PRO1/PRO2 Star Linking Feature (Multi-Link Option)

Notes:

- The Star Linking feature is available only with PRO1/PRO2 products.
- The Star Linking feature uses one of two Server Technology kits:
Part Numbers KIT-PRO2LINK-01M (module kit) or KIT-PRO2LINK-01D (dongle kit)

Purpose

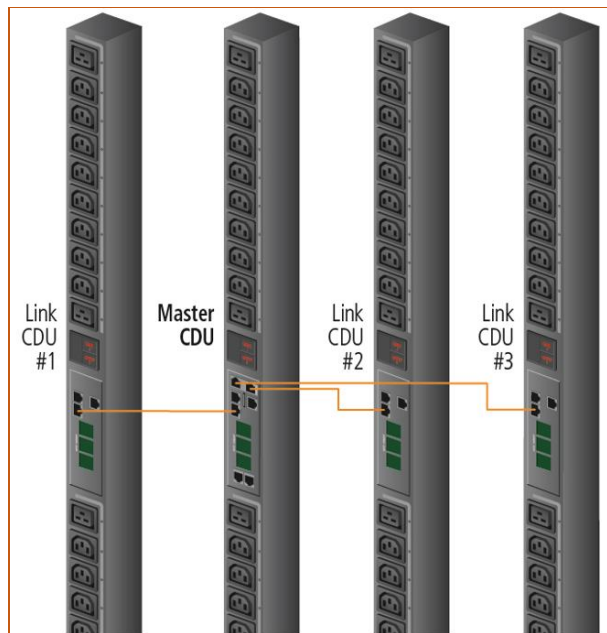
This technical note introduces Server Technology’s PRO1/PRO2 optional **Star Linking** feature and provides the step-by-step instructions for using the correct kit for the multi-link arrangement of a master unit with up to three link units.

About Star Linking

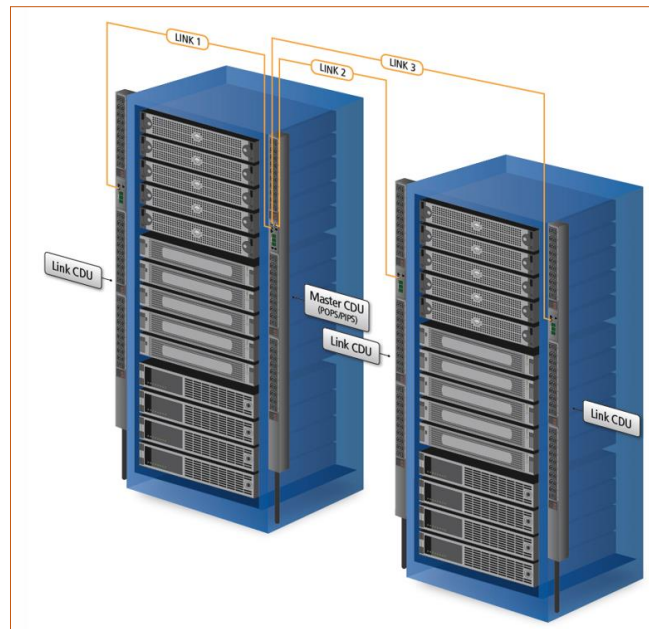
Server Technology’s PRO1/PRO2 product line introduces the Star Linking technology that supports the optional linking of up to three expansion (link) units per one PRO1/PRO2 master unit, allowing a single IP address for multiple cabinets.

The Multi-Linked Hardware Arrangement

The following illustrations show the Star Linking arrangement between separate PRO2 units and within a cabinet:



Multi-Linked PRO2 Units



Multi-Linking View in the Equipment Cabinet

Benefits of Star Linking Technology

Redundant Power and Communication

The Star Linking arrangement is fault tolerant, with redundant power coming from the first link unit. The arrangement also offers significant cost reduction as the link units do not require a network card. Another significant advantage of Star Linking technology is that if power in the master unit is lost, communication will continue with the other link units, which is a major improvement over a daisy-chain linking configuration.

Outlet Grouping

The multi-link arrangement allows outlet grouping across the master and three link units.

Cable Length

The maximum cable length allowed from link unit to master unit is 21 feet (6.4 meters).

About the Multi-Link Kits: Module or Dongle

In the Star Linking arrangement, the first link unit connects through the link port.

However, the second and third link units in this arrangement **attach to either an optional T-shaped module or to a dongle** that connects to the AUX port on the master unit through a 12-inch (30 cm) cable.

The optional multi-link feature is sold as a separate kit purchased from Server Technology. To use the multi-link feature, contact your sales representative to order either the module or dongle kit, described below.

Note: All features and benefits in the multi-link arrangement are the same whether configured with a module or dongle, but for the module, PDU size requirements are noted as follows.

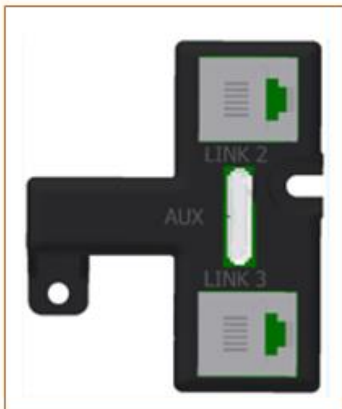
Multi-Link Module Kit

Note: The module fits only on PRO1/PRO2 products that are 2.2 inches (55.8 mm) wide.

Part number: **KIT-PRO2LINK-01M**.

The module kit contains:

- One T-shaped link module (labeled to show the 2nd and 3rd link units).
- Two link cables: each 21 ft. (6.4 meters).
- Two labels marked: LINK 2 and LINK 3.
- One link cable: 7 in. (178 mm).
- One mounting screw: M3x6mm.



T-Shaped Multi-Link Module



Module Connected to the AUX Port on the PRO2 Master Unit

Multi-Link Dongle Kit

Note: The dongle can be installed on any PRO1/PRO2 unit.

Part number: **KIT-PRO2LINK-01D.**

The dongle kit contains:

- One dongle.
- Two link cables: each 21 ft. (6.4 meters).
- Two labels marked: LINK 2 and LINK 3.
- One link cable: 7 in. (178 mm).
- One mounting screw: M3x6mm.



Multi-Link Dongle

Connection points on the dongle for
"LINK 2" and "LINK 3" link units.



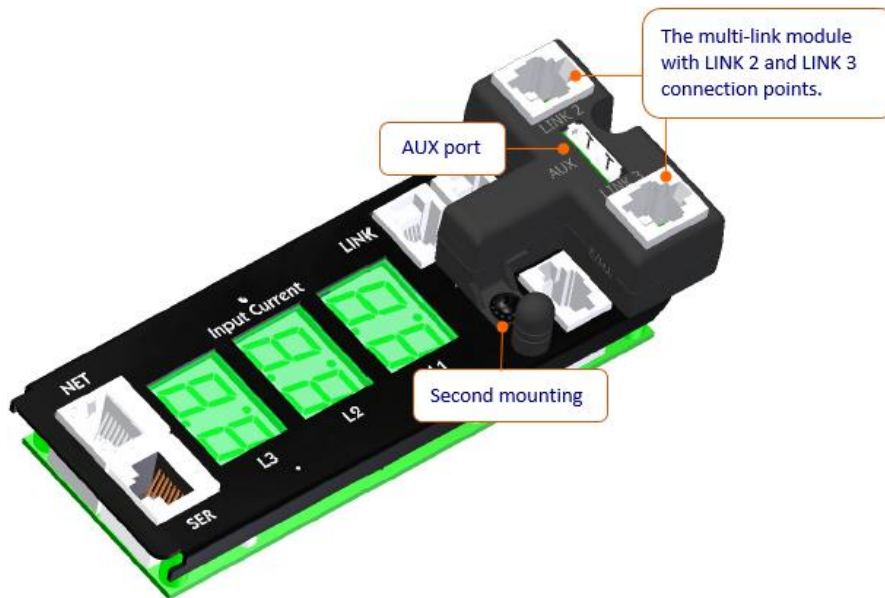
Dongle Connected to AUX Port

Installation Instructions

Based on your purchased kit, follow these installation instructions for either the module or the dongle.

Installing the Module (Part Number: KIT-PRO2LINK-01M)

The T-shaped multi-link module is shown connected to the communication/display area of a PRO2 master unit:



Using the **module** illustration above for reference, follow these steps:

1. Remove the M3x6mm mounting screw from the communication/display module of the master unit. Do not discard the screw.
2. Plug the multi-link module (supplied in your kit) into the AUX port on the communication/display module of the master unit.
3. Re-install the M3x6mm mounting screw removed in Step 1.
4. Install the new M3x6mm screw (supplied in your kit) into the second mounting hole of the multi-link module.
5. Connect a link cable from the primary link port of the master unit to the primary link port of the LINK 1 unit.
6. Connect a link cable from the LINK 2 port of the master unit (on the multi-link module) to the link port of the LINK 2 unit.
7. Connect a link cable from the LINK 3 port of the master unit (on the multi-link module) to the link port of the LINK 3 unit.
8. Apply the “LINK 2” and “LINK 3” labels (supplied in your kit) over the “LINK” PDU silkscreen on the LINK 2 and LINK 3 units accordingly.

Note: The cable that was shipped in the box with your link unit, or the 7-inch (178 mm) cable from the kit, can be used for the first LINK 1 connection (Step 5). The two 21-foot (6.4 meter) cables supplied in your multi-linking kit can then be used for the second LINK 2 and third LINK 3 connections (Steps 6 and 7). However, if all three link units are installed in the same cabinet, if you prefer, the shorter cables shipped with the link units can be used for the multi-link connection.

Installing the Dongle (Part Number: KIT-PRO2LINK-01D)

The following illustration shows the multi-link dongle connected to the communication/display area of a PRO2 master unit.



Using the **dongle** illustration above for reference, follow these steps:

1. Plug the dongle (supplied in your kit) into the AUX port on the communication/display module of the master unit.
2. The dongle hangs freely; a screw is not needed to secure the dongle.
3. Connect a link cable from the primary link port of the master unit to the primary link port of the LINK 1 unit.
4. Connect a link cable from the LINK 2 port of the master unit (on the dongle module) to the link port of the LINK 2 unit.
5. Connect a link cable from the LINK 3 port of the master unit (on the dongle module) to the link port of the LINK 3 unit.
6. Apply the "LINK 2" and "LINK 3" labels (supplied in your kit) over the "LINK" PDU silkscreen on the LINK 2 and LINK 3 units accordingly.

Note: The cable that was shipped in the box with your link unit, or the 7-inch (178 mm) cable from the kit, can be used for the first LINK 1 connection (Step 3). The two 21-foot (6.4 meter) cables supplied in your multi-linking kit can then be used for the second LINK 2 and third LINK 3 connections (Steps 4 and 5). However, if all three link units are installed in the same cabinet, if you prefer, the shorter cables shipped with the link units can be used for the multi-link connection.

Contact Technical Support

For assistance with the Star Linking arrangement on your PRO2 products, Server Technology's Technical Support department is available as follows:



be supported.

Experience Server Technology's FREE Technical Support

Server Technology understands that there are often questions when installing and/or using a new product. Free Technical Support is provided from 8 a.m. to 5 p.m. Pacific Time, Monday through Friday.

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