

# Magnum 6K16V 6KPx Port Module Insertion Guide

**Caution:** Make sure that the power cord is unplugged from the unit prior of installing or removing port modules.

**Note:** Please use proper electro-static discharge (ESD) measures when handling port modules, which (like most electronic subassemblies) are sensitive and subject to damage by excessive static electricity.

**Tools Required:** 1 Philips head screw driver  
**6KPx's** A Magnum 6K16V Port module comes in a Antistatic bag containing:

1. 6KPx boards, in the form of 2 PCBs
2. Three 5/16 stand offs
3. Six #4-40 screws
4. Metal screen cover plate with #2-56 flat screws
5. Two retainer brackets for cover plate

To install the Magnum 6KPx port modules into the chassis, the Magnum 6K16V chassis are combined with top-bottom, front and rear parts and assembled together with the help of 18 Philips-head screws. Once these screws are removed completely, first the front panel is easily slide out to the front of the chassis base, as shown in the Fig 1.

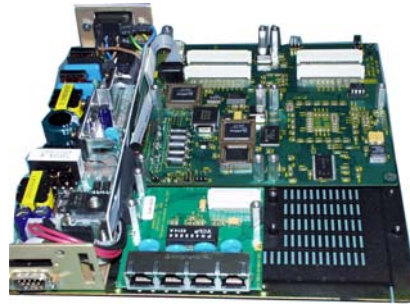


**Figure 1**

Hold the unit at the rear and then easily slide out the top-bottom panel to the front side. Now the port module is ready to be installed (or changed) in the 6K16V chassis. Select the slot, A or B, for your 10 or 100 or 1000 Mb Port Module to go into

The installation procedure is in 5-steps:

**STEP 1.** All the Magnum 6K16V's 6KPx Modules (except 1 GB) consist of a daughter and a grand-daughter board. In the desired slot, first install the grand-daughter board (small, bottom half of the module) in the chassis using the built-in stand-offs at the front of the 6K16V Main Board. Fasten it tightly with the three 7/16 male stand-offs as shown in Figure 2 (where slot A is shown populated with an RJ-45 grand-daughter board)



**Figure 2**

**STEP 2:** Hold the daughter board with both hands at the ends, and align the two cream-colored latching connectors (male, built into the bottom of the module daughter board) with the matching female connectors built into the grand-daughter and main boards. To do this, position the daughter board down at the front as required to mate the cream-colored connectors. As shown in Figure 3, this enables the daughter board to fit into its operating position, ready to be pushed into place.



**Figure 3**

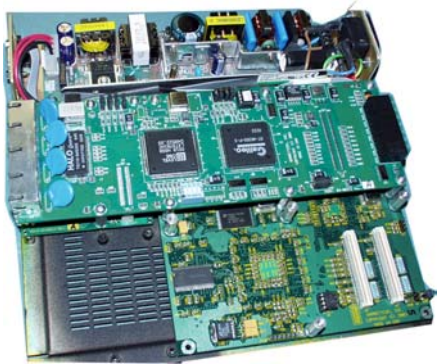
**STEP 3:** Once the cream-colored latching connectors are aligned properly, and the mounting holes are aligned with the stand offs and seated correctly, then press slowly and firmly with two fingers on the top of the latching connectors until the connectors are joined and latched up securely. Carefully press the connectors into position. Some pressure is required. Do not force the connectors when they are not correctly aligned. The latching

connectors may be damaged if they have not been aligned properly and are forced into an incorrect position. The 6KPx module, aligned with the bottom connector and mounting holes with stand off before installation, is shown in Fig. 4



**Figure 4**

**STEP 4:** Once the 6KPx module has been installed successfully, then it is necessary to secure the module by using the screws provided along with the module. Screw down the daughter board with six #4-40 screws. Figure 5 shows the top view of a successfully installed 6KPx module inside a Magnum 6K16V unit.



**Figure 5**

**STEP 5:** After successful installation of grand-daughter and daughter boards, the front panel screen plates need to be placed on the desired port module slot cut-out of the chassis cover to complete the installation process for that module. Note that the screws and the retainer brackets are installed inside of the top case cover, on the port side, so that the module's screen plate goes around the port connectors as the case cover slides on. Figure 6 shows the final step, viewing the port-side of the top case cover from the inside.



**Figure 6**

This completes the installation process for any 6KPx port module. Once all port module have been installed, take precaution to align all the media connectors with their corresponding metal screen cut outs. The chassis cover should be carefully replaced and securely fastened with flat-head screws, reversing the procedure shown in Figure 1. See also **Chapter 3.6** (6K16V Port Module Installation) in "**Magnum 6K16V Installation and User Guide**" for details and additional information about the Magnum 6K16V.

**NOTE:** When leaving a port module slot unused, always use a face plate in the empty slot. This is the way configured Magnum 6K16V units with unused slots are shipped from the factory.

Finally, after assembling all the mechanical parts together as per instructions, the complete assembled Magnum 6K16V unit will look like these examples shown below.

The left one has eight RJ45 ports in Slot A, 4 copper and 2 SC fiber ports in slot B.  
The right one has four 100Mb, ST Fiber port in slot A, and four 10Mb, ST fiber on slot B.



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Printed in the USA Doc. No 6K16V-6KPMs-R1-02-04