



**Mark III Dynapatch®
RJ45 Patch Panel**

- ***Dynapatch® Normal-through Connection (can be omitted)***
- ***LED Indication of Port Activity***
- ***LED Patch Cord Path Tracing***
- ***Optional Power over Ethernet Capable***

Mark III Dynapatch® RJ45 Patch Panel

The Dynetcom, Dynapatch® Cat5 Patch Panel from NSGDatacom brings a new standard of reliability and flexibility to Ethernet 10/100 twisted-pair networks. From the front of the patch panel simple plug-and-play redirection of Ethernet segments is possible using a standard RJ-45 patch cord. Inserting a patch cord between two of the RJ-45 sockets on the Dynetcom patch panel breaks the normal-through connection and creates a new cross-connection through the cord. Individual Ethernet segments or equipment ports can thus be easily isolated or redirected for fault isolation, segment testing, reconfiguration, temporary changes, security reasons, etc. The unit is also available without the normal through relay connections.

Each 3U high (5.25"), 19" wide rack-mountable panel supports 24 circuits towards the premises wiring side and 24 circuits towards the equipment side. The premises wiring is attached to the rear of the patch panel via 110-type punch-down blocks and is rated for Cat5 networks, supporting 568B wiring configurations. Wiring to the local LAN switching equipment is also from the rear of the panel using either RJ-45 connections or 110-type punch-down blocks. (Three versions of the of the patch panel are available; 1) 110-type punch-down blocks only, 2) RJ-45 connectors only and 3) both 110-type punch-down blocks and RJ-45 connectors are provided). This provides a fast, clean installation with significantly less visible wiring than traditional patching. Savings are realized in hardware costs, installation and maintenance time, allowing the inside of your wiring closet to be organized, yet remain flexible and quickly reconfigurable.

The front panel contains the two rows of 24 patching sockets with bi-directional activity LEDs, slide-in designation strips and a unique patch trace capability. Each front panel RJ45 socket has an associated push button which when pressed, lights additional path-trace LEDs at the initiating and terminating ends of an inserted patch cord.

The Dynetcom Cat5 Patch Panel supports standard Ethernet pairs 1 & 2 on pins 1-2 and 3-6. It also supports standard telephone wiring on pair 3, pins 4-5.

Each panel is equipped to provide optional power over Ethernet, this a method that inserts power on the unused pairs in standard 8-wire Cat5 cable according to Ethernet PoE, IEEE 803.2af. (Requires optional Power over Ethernet Controller module.) The panel is field upgradeable to power over Ethernet without need for de-installing or re-cabling.

All connectors and connector blocks meet National Electrical Code requirements and specifications for UL 1863, and fully comply with the latest published TIA guidelines.



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DYNETCOM
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Performance

The Dynetcom Category 5 Patch Panel is designed to meet and exceed the standards in accordance with TIA/EIA 568-B using pairs 1 and 2 on pins 1-2 and 3-6 respectively. It can also support telephone wiring on pair 3 (4-5). The 110-type termination, for the building wiring, provides a reliable connection and meets the performance requirement for high-speed applications. Termination towards the Ethernet hub or switch is by 110-type punch-down or RJ-45 plug. Patch panels are 19" horizontal rack mountable and are designed for high-density installations. They are available in 24 circuits (48 ports) per 3U (5.25 inches) panel with four built-in rack-mount anchoring points. Multiple panels can be mounted together for additional port counts. Each port has a LED to monitor Ethernet segment activity. In addition there are switches and LEDs for patch tracing. Path switching during patching is via latching relays that retain their position in the event of a power failure.

Technical Specifications

Dimensions:

- Height : 5¼" (3U) 13.54cm
- Width: 19" 48.25 cm
- Depth: 6" 15.56 cm

Power:

- 100-250VAC 50~60HZ 2.5W

Optional Power over Ethernet Module

- Class 1, Class 2, or Class 3
- Input Power: 100-250VAC, 50/60 Hz or 48VDC

Color:

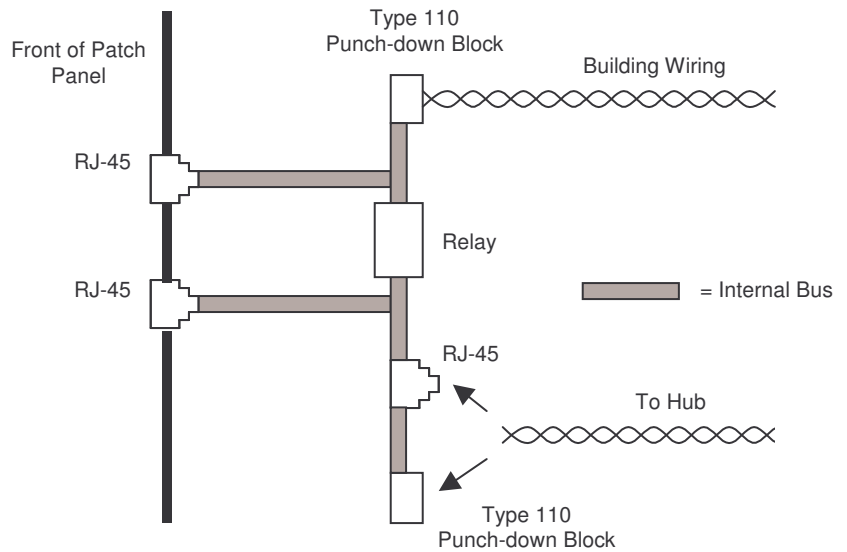
- Black or Red

Environmental:

Temperature :

- Operating: 0 to +40 degrees C
+32 to +104 degrees F
- Storage: -20 to +70 degrees C
-4 to +108 degrees F

- Humidity: 0 to 95% non-condensing



Block Diagram of Cat 5 Patch Panel Internal Connections

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