



**Mark III Dynapatch®  
RJ45 Patch Panel**

**Mark III Dynapatch® Modular RJ45  
Patch Panel**

- **Supports Ethernet 10/100/1000**
- **Supports T1/E1 Data**
- **Normal-through Connection (can be optionally omitted)**
- **Port Activity LED**
- **LED Patch Cord Path Tracing**
- **48 Ports, 2 U High, 6 Modules/Panel**

The Dynetcom, Dynapatch® Modular RJ45 Patch Panel with optional *EZ-Trace®* capability from NSGDatacom brings a new standard of reliability and flexibility to Ethernet 10/100/1000 and T1/E1 data twisted-pair networks. From the front of the patch panel simple plug-and-play redirection of Ethernet segments and data circuits 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.

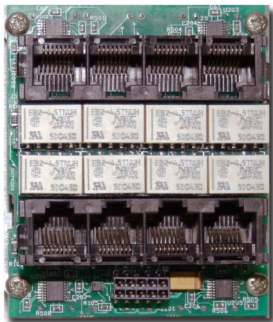
Each 2U high, 19" wide rack-mountable panel supports 24 circuits towards the premises wiring (DTE) side and 24 circuits towards the equipment (DCE) side. The panel is divided into six, 4 circuit (8 port) field replaceable modules. The premises wiring is attached to the rear of each module using RJ45 connectors and is rated for CAT 5 or CAT 6 networks. Wiring to the local LAN switching equipment is also from the rear of the panel using RJ-45 connectors. An optional two level cable tie-down bar allows wiring to be neatly dressed at the rear to provide a 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.



From the front, each module contains the two rows of 4 patching sockets with bi-directional activity LEDs, adhesive designation strips and a unique optional patch trace capability. Each front panel RJ45 socket (RJ69's for Gigabit Ethernet) has an associated push button which when pressed, lights additional *EZ-Trace®* LEDs at the initiating and terminating ends of an inserted patch cord. If the *EZ-Trace®* option is not selected, the push buttons are eliminated and the two standard 3/8 inch wide label strips are replaced with two 3/4 inch wide label strips (as shown below).

The Dynetcom RJ45 Patch modules support standard Ethernet pairs 1 & 2 on pins 1-2 and 3-6 and are also available for T1/E1 circuits supporting data on pins 1-2 and 4-5. The Gigabit Ethernet modules support twisted pairs 1,2,3, and 4 on pins 1 -2, 3-6, 4-5, and 7-8.

Each Module can be ordered with or without the normal-through relay connections, with color coded panels, and with a dual-redundant power supply option. The relay module is field removable/upgradeable on T1/E1 and 10/100 Mbit Ethernet modules. Blanking plates are supplied in panels with less than six modules installed.



Rear View of Ethernet/  
T1/E1 Module

**Communication solutions from**

**NSGDatacom**

**extend. evolve. innovate.**



## Mark III Dynapatch® RJ45 Patching

The Dynetcom RJ45 modules are 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 for Ethernet 10/100, and pairs 1,2,3 and 4 on pins 1-2,3-6,4-5 and 7-8 for Gig Ethernet. Termination towards the equipment side or switch is by 48 RJ-45 sockets to the rear of the unit. Patch panels are 19" horizontal rack mountable and are designed for high-density installations. They are available in modular increments of 4 circuits (8 ports) to a maximum of 24 circuits (48 ports) per 2U panel with four built-in rack-mount anchoring points. Each port has a LED to indicate Ethernet segment activity. In addition there are optional switches and LEDs for patch tracing. Patch switching during patching is via latching relays that retain their position in the event of a power failure. Modules are field replaceable and hot-swappable. Tie-down bars are multi-position.

The Gigabit Ethernet patch module requires the use of the Mark III Gig E patch cord. The use of other manufacturers patch cords could damage the module and void the warranty.

### Technical Specifications

#### Dimensions:

Unit Height : 2U high, 3 1/2" (9.11 cm)

Unit Width: 19" (48.25 cm)

Depth: 6" (15.56 cm)

#### Power:

Single or dual redundant PSU modules: 100-250VAC 50~60HZ 2.5W

#### Panel Color:

Black or Red (standard)

Other colors available upon request

#### Environmental:

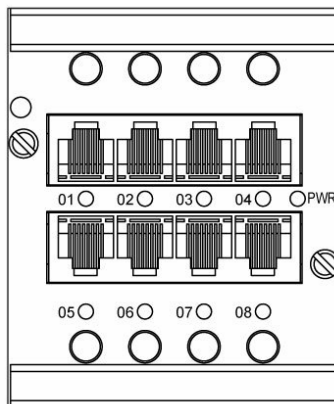
##### Temperature :

Operating 0 to +40 degrees C  
+32 to +104 degrees F

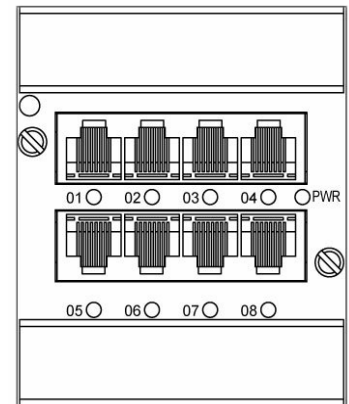
Storage -20 to +70 degrees C  
-4 to +108 degrees F

##### Humidity:

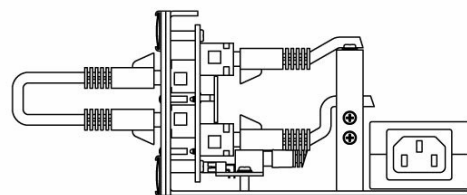
0 to 95% non-condensing



**Patch Panel Module—  
With trace**



**Patch Panel Module—  
Without trace**



**Patch Panel Side View**

# NSGDatacom

[www.nsgdata.com](http://www.nsgdata.com)

3859 Centerview Drive, Suite 500  
Chantilly, VA, 20151-3232 USA  
Phone: +(1) 703 793 2000  
Fax: +(1) 703 793 2001

5112 Pegasus Court, Suite X  
Frederick, MD, 21704 USA  
Phone: +(1) 301 662 5926  
Fax: +(1) 301 694 6279

The Brackens, London Road  
Ascot, Berkshire SL5 8BE, UK  
Phone: +(44) 1344 893 000  
Fax: +(44) 1344 891 990