DYNETCOM

*Mark III Dynapatch®
Embedded RJ45 Patch Module*

Mark III Dynapatch® Normal-Through RJ45 Patch Module for Embedded applications

- *Supports 3 pairs, Audio, Ethernet or T1/E1 Data*

- *Up to 24 circuits in a 1U high enclosure.*

- *Normal-through Connection*

- *Front and Rear Port Activity LEDs*
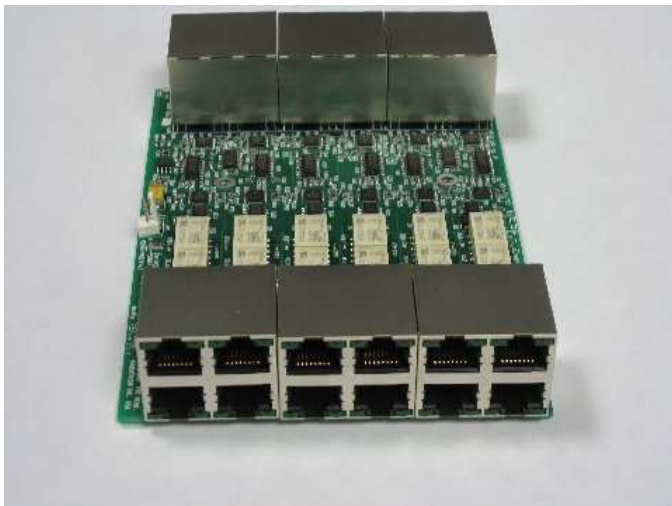
- *Alarm LED + Signal*

The Dynapatch® RJ45 Normal-Through RJ45 Patch Module from NSGDatacom is designed for embedded applications and brings a new standard of reliability and flexibility to Audio, Ethernet 10/100 and T1/E1 data twisted-pair networks. The module is designed for use in all types of Military and commercial applications where Normal-Through connections are required. From the front patch ports 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 patch sockets on the front of the patch module 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 module supports 6 RJ45 circuits towards the premises wiring (DTE) side and 6 circuits towards the equipment (DCE) side. For high density applications 4 modules can be mounted side by side in a standard 19 inch wide chassis to provide 24 circuits per 1U high enclosure. The premises wiring is attached to the rear of each module using RJ45 connectors. Wiring to the local switching equipment is also from the rear of the panel using RJ-45 connectors.

From the front, each module contains the two rows of six RJ45 patching sockets with bi-directional activity LEDs. Optional activity LEDs are also provided on the rear sockets.

The Embedded RJ45 Patch module supports standard Ethernet pairs 1 & 2 on pins 1-2 and 3-6 and supports data on pins 1-2 and 4-5. Many other types of standard data and audio signals can be supported on all three pairs.

Each Module can be ordered with optional dual-redundant power supply inputs with an alarm LED and alarm output signal.

Communication solutions from

NSGDatacom

extend. evolve. innovate.

Mark III Dynapatch®
Embedded RJ45 Patching Module

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 pins 1-2, and 4-5 for Data. Termination towards the equipment side or switch is by RJ-45 sockets to the rear of the unit. Patch modules are 19" horizontal rack mountable and are designed for high-density installations. They are available in modular increments of 6 circuits (12 ports) to a maximum of 24 circuits (48 ports) per 1U panel. Each port has front and rear LEDs to indicate Tx and Rx activity. Path switching during patching is via latching relays that retain their position in the event of a power failure. Power connectors may be daisy-chained for multiple modules in an enclosure.

Technical Specifications

Dimensions:

Unit Height : 1.25" high (3.2cm) Nominal

Unit Width: 4.125" (10.5 cm)

Depth: 6" (15.2 cm)

Connectors:

2 power connectors 3pin/4pin (with Alarm)
12 RJ45 Front
12 RJ45 Rear

Power:

Single or dual 5V DC supplies 10W
Nominal

Indicators:

Power/Alarm LED Green/Red.

Tx Activtiy (1-2) LED Green Front/Rear
(optional)

Rx Activtiy (3-6)) LED Green Front/Rear
(optional)

Mounting:

4 Mounting points, 1 chassis Ground

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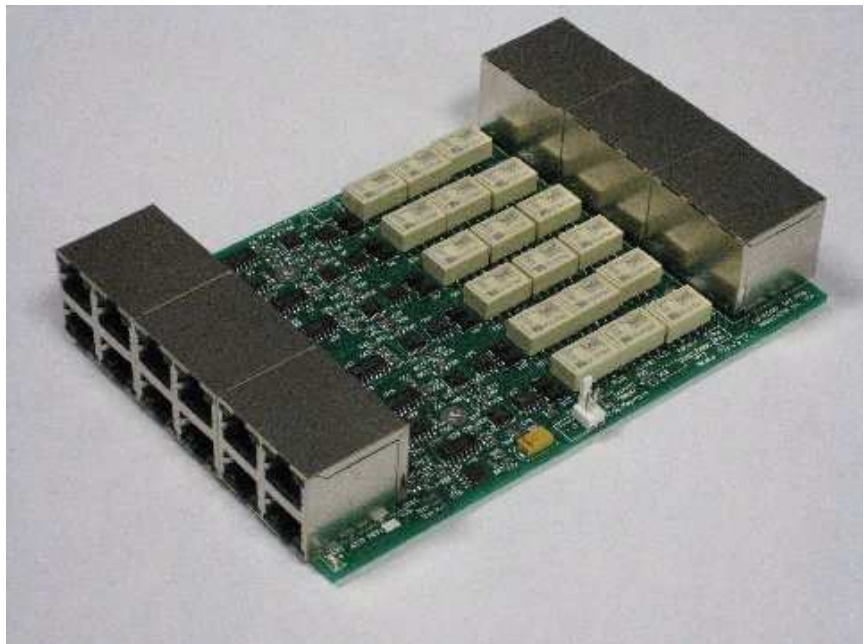
Temperature :
Operating   0 to +40 degrees C
                +32 to +104 degrees F
Storage   -20 to +70 degrees C
                -4 to +108 degrees F

Humidity:
0 to 95% non-condensing

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Specifications subject to change without notice