Mark II Dynaswitch® II

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The Dynetcom Dynaswitch® II from NSGDatacom is designed to provide remote A/B switching capability for two Channels in a rack mounted 1U Chassis. The unit can monitor selected circuits for activity and respond with a variety of alarm and switching actions depending on how the controller is programmed. Switching can be manually controlled locally, automatically controlled locally or controlled remotely.

- *Ethernet and WAN alarming and back-up circuit switching*

- *2 A/B Switching Modules per Chassis*

- *Activity Scanner for automatic switching and alarms*

- *RS232/V.24, RS530, V.35. X.21, G703 , Ethernet, T1/E1, RS232/EIA 561 Interfaces Supported*

- *Remotely manageable via Ethernet or serial port*

Each chassis can be equipped with the capability of switching any combination of RS232/V.24, RS530, or V.35 with using DB25 connectors, X.21 using DB15 connectors, G703 using BNC connectors or Ethernet, T1/E1, RS232/EIA 561, using RJ-45 connectors. All industry standard products that use DB25 or RJ-45 port connectors can be supported. The RJ-45 and BNC module is available in both single or dual bank versions.

Each Switching Module has a A/B toggle switch for local switching and a red/green LED to indicate the A or B switch position and has LED monitoring of RxD and TxD, a variable carrier alarm, a reset, and an off switch.

The Dynaswitch® II incorporates a Master Switch Control and Alarm Module and a Dynetcom MARC-12 Serial/IP Remote Control Module. Switching can be accomplished locally using either the master A/B toggle switch on the front of the unit or the individual channel A/B toggle switches. Switching remotely can be accomplished over a dedicated serial link, or though an IP network (such as the Internet).

In common with all the Dynetcom line Mark II A/B switching systems the switching modules feature latching relays for clean physical-level circuit switching and position retention in the event of power loss.

The Dynaswitch® II comes equipped with the Line Activity Scanner (LAS) Feature, which provides the A/B switch module with the capability to monitor selected circuits for activity and be configured to generate alarms and/or perform an appropriate switching action; e.g. alarm and switch, alarm and email, alarm only, email and switch, etc. Monitored lines (depending on interface type and pin configuration) are: Data Terminal Ready (DTR) A or B, Request to Send (RTS), Clear to Send (CTS), Data Carrier Detect (DCD), and Data Set Ready (DSR) TD and RD.
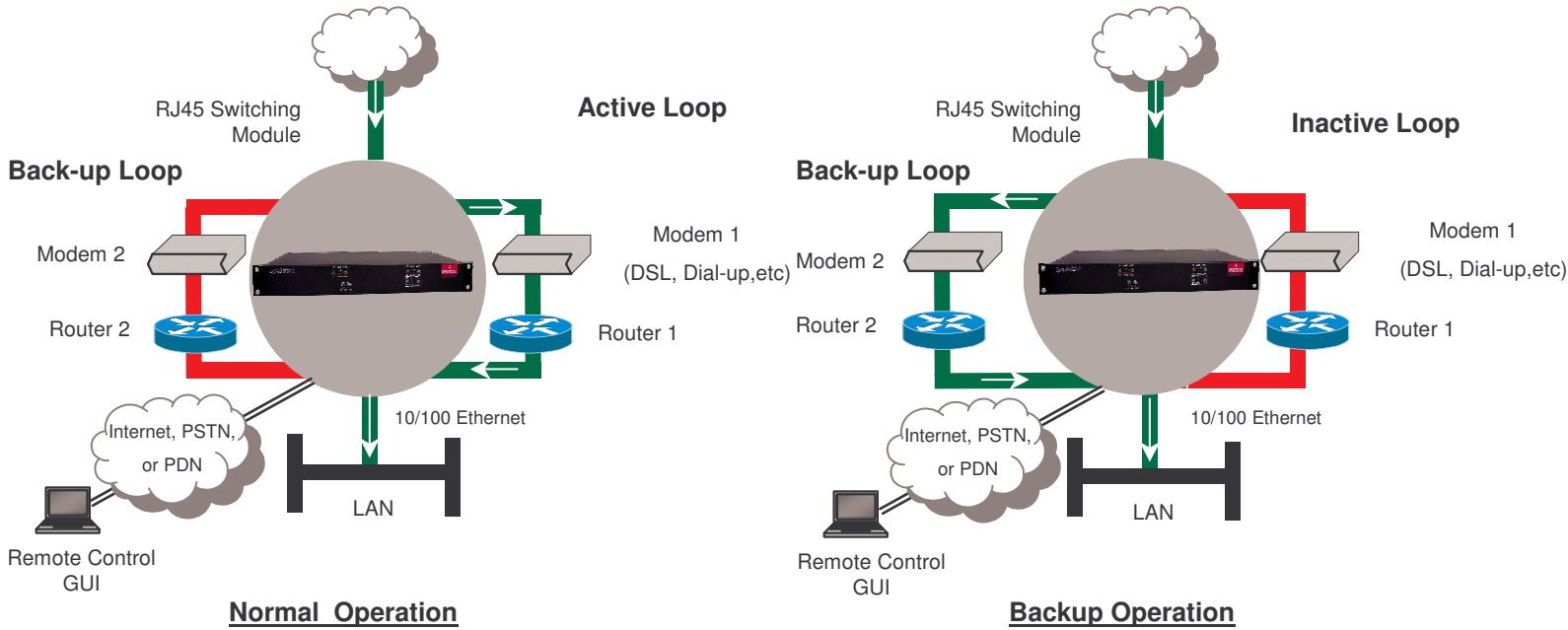

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NSGDatacom

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Mark II Dynaswitch II

RJ45 Switching Module

Active Loop

Back-up Loop

Modem 2

Modem 1
(DSL, Dial-up,etc)

Router 2

Router 1

Internet, PSTN, or PDN

10/100 Ethernet

LAN

Remote Control GUI

Normal Operation

RJ45 Switching Module

Inactive Loop

Back-up Loop

Modem 2

Modem 1
(DSL, Dial-up,etc)

Router 2

Router 1

Internet, PSTN, or PDN

10/100 Ethernet

LAN

Remote Control GUI

Backup Operation

Product Specifications

Physical Interfaces
DB25, DB15, RJ-45 or BNC (Switching Card)
Ethernet Control Port RJ-45 (Control Card)
Serial RS-232 Control Port DB-9 (Control Card)

Electrical Interface Supported (Switching Card)
RS232/V.24
RS530
V.35
X.21
RS-232-D/ITU V.24(EIA-561)
Dynetcom CPX Sync/Async
Ethernet
T1/E1/ISDN
G.703 (BNC)

Selectable Control Signals Indicators
A/B Switch Position
Alarm
RS232 modem signals (optional)
Carrier Detect State
Transmit Data Receipt

Physical
1U (1¾",4.4 cm) High, 19" (48.26 cm) Chassis

Power Requirements
1A @ 110VAC, 0.5A @ 230VAC
Auto Sensing Power supply 90V to 250VAC
1.5A @ 48VDC

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Specifications subject to change without notice