

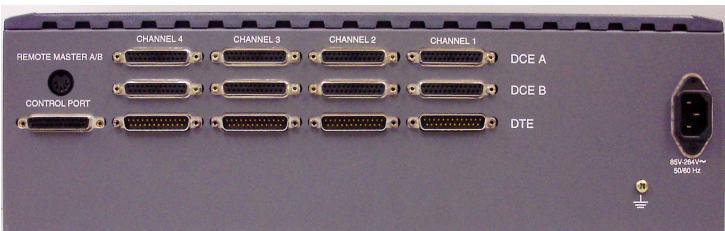


4 Channel A/B Switch



The 4 Channel A/B Switch is an economical alternative to our modular 16 Channel A/B Switch chassis systems in cases where 4 or less channels per sites are required. It is designed to be entirely compatible with the methods of remote control and alarm/status monitoring used on our current A/B switch products. Thus the 4 Channel A/B Switch can be used within a multi-site environment containing our large 16 Channel A/B Switch Chassis at some sites and the 4 Channel A/B Switch at smaller sites. All sites can be controlled by Dynetcom's Control Console which is a PC based site control application running under Windows*/NT* operating system or by the Marc 12 IP Controller software.

*Both Windows and NT are registered trademark of Microsoft Corporation



Highlights

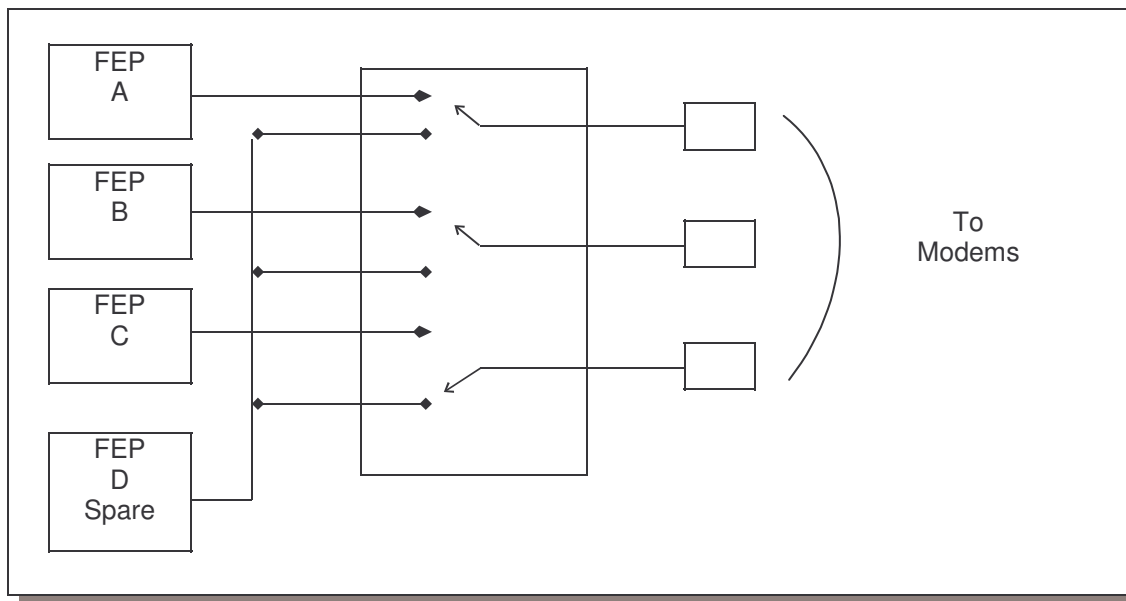
- Front panel membrane switches allow individual channel and master A/B switching, alarm reset and audible alarm disabling
- Each channel can be independently configured for V.24, V.35, or X.21 (V.11) monitoring and alarming or none
- Front panel LEDs for each channel indicate A/B status, alarm status, transmit data, receive data, DTE status (DTR V.24 and V.35; control X.21), and DCE status (DCD V.24 and V.35; indicate X.21)
- Each channel can operate at T1/E1 speeds on up to 24 circuits per interface
- ISDN, 10 Base T, AUI, BNC, and other non-monitored channels can be run at up to 10Mbps
- Suitable for hot stand-by installations where a pre-defined alarm condition on one channel causes all channels to switch
- Desktop or rack mountable
- Master A/B switching at up to 150 meters via rear panel 5 pin DIN connector
- MARC—10 model enables remote control of A/B switching from a terminal or PC based NMS controller such as our DCC software package
- MARC—11 model enables remote control of A/B switching plus alarm reporting and status monitoring by our DCC software package. Full modem control with dial-up on alarm
- MARC—12 model enables remote control of the A/B switching via Ethernet connection using HTTP from WEB browsers (Internet Explorer, Netscape, and others), or via traditional ASCII serial port using remote Telnet access to menu functions, or by using Simple Network Management Protocol (SNMP) via a private management Information Base (MIB)

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As a company's communications needs grow in size and complexity, manual configuration using patchcords and visual monitoring LEDs cease to provide a long term solution. What is simple and cost effective for 16-32 channels becomes impractical with 64 channels and totally unmanageable with several hundred channels. By this time users have established operational patterns that allow them to standardize on certain predetermined configuration changes. Hence, A/B switching by either control or in a remotely controlled environment provides a practical and cost effective alternative to patching.



The diagram shows a typical medium sized user application with three "front-end" or communications processors identified as A,B, C and a fourth FEP identified as D, designated as a spare. Four types of sparing out, fallback, or bypass requirements can exist which are:

- ◆ Regular maintenance of one of the FEP's
- ◆ Failure of an individual FEP channel
- ◆ Overload of one or more FEPs, therefore requiring some load sharing between all four FEPs
- ◆ Different applications software environments are being used

All four requirements can easily be satisfied by the internal features implemented by Dynetcom's 4 Channel A/B Switch

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