

ETHERNET SWITCHING SYSTEMS

This Series of Switching Systems are Multiplexers used to test 10Base-2, 10Base-T and 100Base-TX Data Links or Equipment.

Systems are built using a modular concept of Switch Modules and Control Modules plugged into pre-wired Mainframes to give flexible expansion capability.

LED Display and Status feedback of selected relays are available on most units.

Control can be from IEEE488 Bus, RS232 Serial, LAN or ISA Bus. Optional Front Panel Controls are available on some units.

10BASE-T ETHERNET

The RJX Multiplexers can be used to test any number of 10Base-T lines or equipment by switching them to one or two Network Testers as shown in Fig. 1. The Multiplexers are built up from RJX Modules which switch pins 1, 2, 3 & 6 of CAT5 RJ45 connectors from the selected inputs to one output which goes to the Test Equipment. All units exceed 10Base-T and CAT3 specifications with wide margins.

SWITCH MODULES

There are two modules available, and both modules are designed to plug into a backplane and interconnected for large multiplexers. The isolation relay in the module is energized when a channel is selected in that module. This maintains the high bandpass and low crosstalk.

Bandpass on these modules is -0.1dB down at 10 MHz.

NEXT is -50dB at 10 MHz.

RJX/8x1 SWITCH MODULE

This module switches any one of 8 RJ45 inputs to one common output or to the backplane via an isolation relay as shown in Fig. 2.

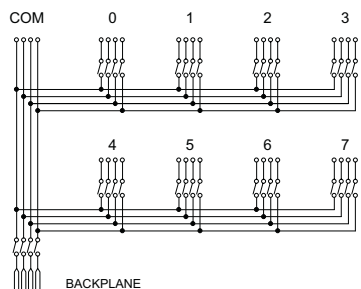


Fig. 2

RJX/4x2 SWITCH MODULE

This module switches any RJ45 input to one of the two common outputs or to the backplane via isolation relays as shown in Fig. 3.

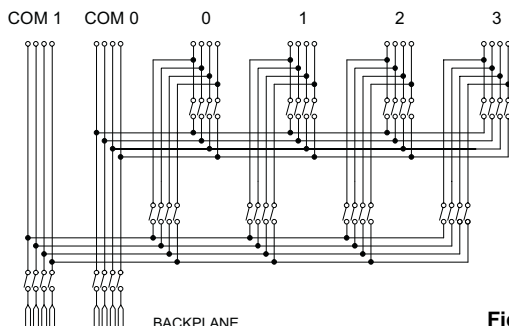


Fig. 3

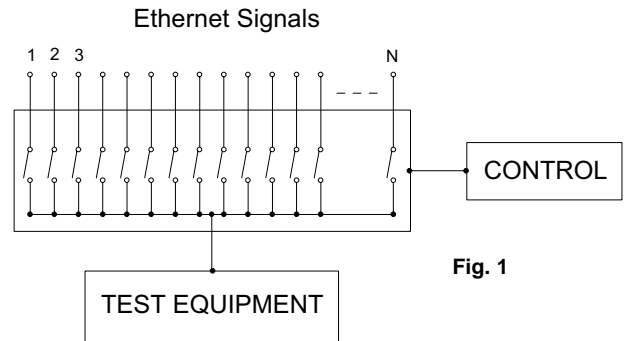


Fig. 1

MAINFRAMES

RJX/32 MAINFRAME

This unit is 3.5" high and includes power supplies, 32 Front Panel LEDs and is pre-wired for up to four RJX/8x1 or RJX/4x2 Switch Modules. The modules may be used as separate multiplexers or interconnected as 32x1 or 16x2 Multiplexers.

Bandpass in a 32x1 Mux is -1dB down at 60 MHz.

NEXT is -40dB at 10 MHz.

RJX/128 MAINFRAME

This unit is 8.75" high and includes power supplies and pre-wired motherboards for sixteen RJX/8x1 or RJX/4x2 Switch Modules and 16 CL8 Display Modules.

The unit can be configured as up to sixteen separate modules or interconnected as 128x1 or 64x2 Multiplexers.

Bandpass in an RJX/128 Mainframe is a function of the number of modules plugged into the backplane to form larger multiplexers.

As a 128x1 Mux, the **Bandpass** is -3dB down at 12 MHz and **NEXT** is -30dB at 10 MHz.

For more details including pricing on all our Ethernet Switching Systems, call 1-800-346-3117 for our complete catalog or view it on www.cytec-ate.com.

100BASE-TX ETHERNET RJV MULTIPLEXERS

The RJV Multiplexers can be used to test any number of 100Base-T lines or equipment by switching them to a Network Tester as shown in Fig. 1. The Multiplexers are built up from RJV Modules which switch pins 1, 2, 3 & 6 of CAT5 RJ45 connectors from the selected input to the output connector as shown in Fig 4. All units exceed 100Base-TX and CAT5 specifications with wide margins.

SWITCH MODULES

RJV/12x1 SWITCH MODULE

This module switches any one of 12 inputs to one common output or to a backplane as shown in Fig. 4.

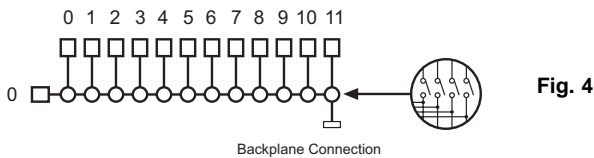


Fig. 4

RJV/6x4 SWITCH MODULE

This module switches any four of the 6 inputs to four outputs or to a backplane connection as shown in Fig. 5. This module is particularly useful in large network systems as it enables up to four circuits to be connected to four separate testers at any time.

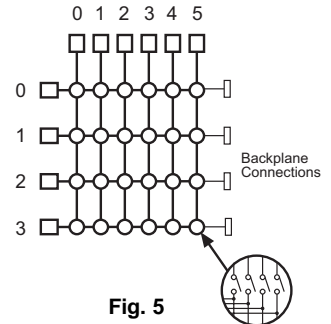


Fig. 5

RJV/6x2 SWITCH MODULE

This module switches any two of the 6 inputs to the two outputs or to a backplane as shown in Fig. 6.

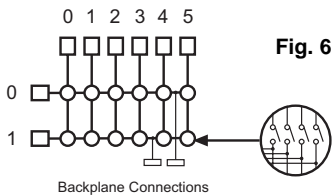


Fig. 6

MAINFRAMES

RJV/48 MAINFRAME

This unit is a 19" rack mount chassis, 5.25" high and 11" deep and is pre-wired for four RJV Switch Modules to give a 48x1 Multiplexer, a 24x2 Matrix, a 24x4 Matrix or 16 A/B Switches.

RJV/144 MAINFRAME

This unit is a 19" rack mount chassis, 10" high and 11" deep and is pre-wired for twelve RJV Switch Modules to give a 144x1 Multiplexer, a 72x2 Matrix, a 72x4 Matrix or 48 A/B Switches.

RJV/4(2x1) SWITCH MODULE

This module has four separate 2x1 matrices and each matrix can be used to switch one 100Base-TX lines to one of two outputs.

10BASE-2 THIN ETHERNET CXR MULTIPLEXERS

The CXR Multiplexers can be used to test any number of Coaxial 10Base-2 lines or equipment by switching them to one Network Tester as shown in Fig. 1.

The multiplexers are made up of CXR Modules with BNC Connectors and 50 ohm characteristic impedance.

All units exceed the 10Base-2 specifications with large margins.

SWITCH MODULES

The modules terminate all unused inputs and the termination is removed when that input is selected.

CXR/8x1-T COAXIAL SWITCH MODULE

This module switches any one of 8 Coaxial Inputs terminated in 50 ohms to one Coaxial Output via an isolation relay as shown in Fig. 7.

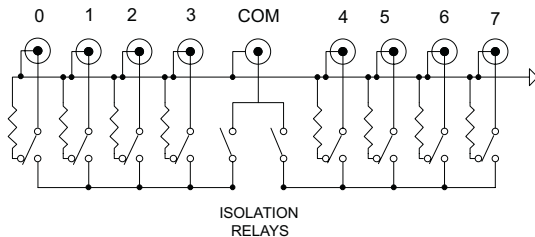


Fig. 7

CXR/4x1-T COAXIAL SWITCH MODULE

This module switches any one of 4 Coaxial Inputs terminated in 50 ohms to one Coaxial Output via an isolation relay in a similar configuration to Fig. 7.

MAINFRAMES

These CXR Chassis are 19" rack mounting chassis with power supplies and are pre-wired to accept the CXR Switch Modules. Front panel displays provide LED indication of switch Status.

CXAR/32 MAINFRAME

This chassis is 5.25" high and 12" deep pre-wired for four CXR/8x1-T Switch Modules in a 32x1 Multiplexer configuration.

CXAR/64 MAINFRAME

This chassis is 5.25" high and 12" deep pre-wired for up to sixteen CXR/4x1-T Switch Modules in a 64x1 Multiplexer configuration.

CXAR/128 MAINFRAME

This chassis is 8.75" high and 12" deep pre-wired for up to sixteen CXR/8x1-T Switch Modules in a 128x1 Multiplexer configuration.