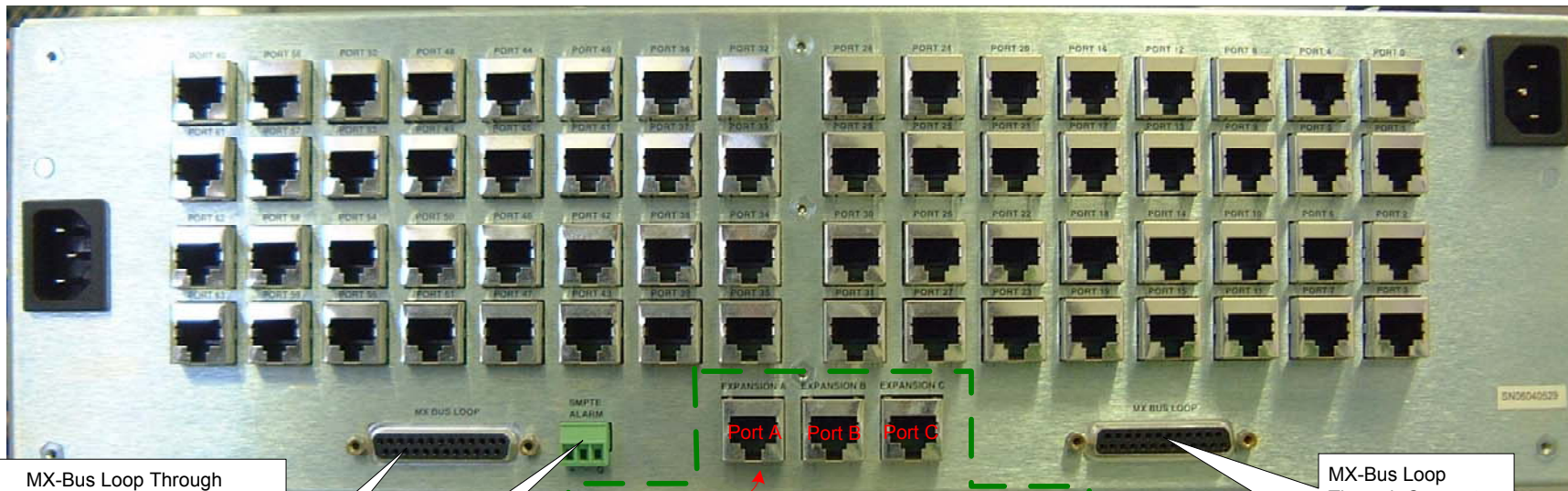**US Utah Scientific**

Serial Data Connector Pinouts
Tributary Mode
1&2 = gnd, 3 = TX Common, 4 = TX-, 5 = TX+, 6 = RX Common, 7 = RX+, 8 = RX-

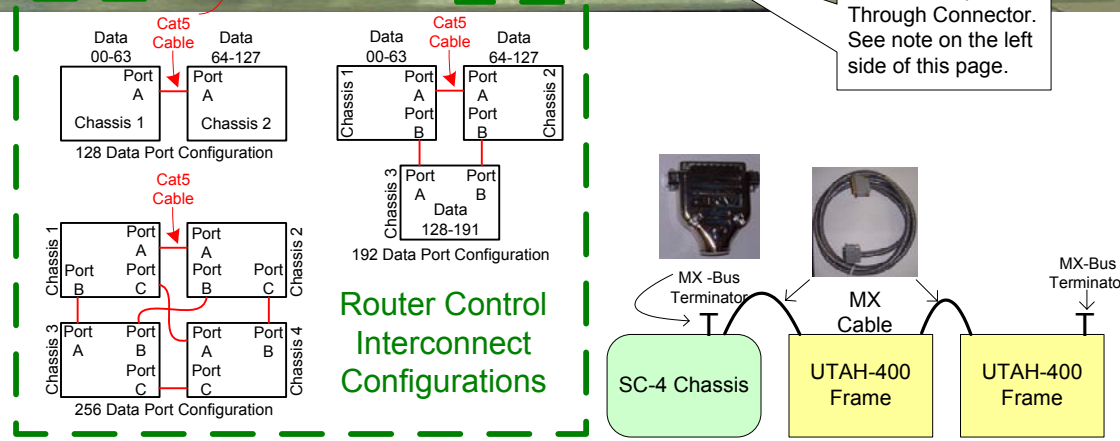Serial Data Connector Pinouts
Controller Mode
1&2 = gnd, 3 = RX Common, 4 = RX-, 5 = RX+, 6 = TX Common, 7 = TX+, 8 = TX-

MX-Bus Loop Through Connect to one of the two MX-bus connections on the SC-4 or another router frame. Both MX ports must be terminated, either on the SC-4 or at the router chassis. Maximum length of 300 feet. See block diagram below for a typical installation.

SMPTE Alarm Relay closure indicating over temperature, power supply or fan failure

MX-Bus Loop Through Connector. See note on the left side of this page.

128 Data Port Configuration

Data 00-63	Cat5 Cable	Data 64-127
Port A	→	Port A
Chassis 1		Chassis 2

192 Data Port Configuration

	Data 00-63	Cat5 Cable	Data 64-127	
Chassis 1	Port A Port B	→	Port A Port B	Chassis 2
Chassis 3	Port A	Data 128-191	Port B	

256 Data Port Configuration

		Cat5 Cable		
Chassis 1	Port A Port B	→ Port C	Port A Port B	Port C Chassis 2
Chassis 3	Port A Port B	Port C	Port A Port B	Port C Chassis 4

Router Control Interconnect Configurations

MX -Bus Terminator | MX Cable | MX-Bus Terminator

SC-4 Chassis | UTAH-400 Frame | UTAH-400 Frame

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RJ-45
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Green = FPGA board Active

Red = Power supply failure

Control Card Detail

Local board reset switch

Flashing Green = MX Bus active / okay

Red = power supply or fan failure

Red = Fan failure

Power Supply LED's

Red = SMPTE Alarm Active

Red = "Standby" mode

Power Supply LED's

Alarm
Fan
Temp
-12
+12
+3.3
+5

+5
+3.3
+12
-12
Temp
Fan
Alarm

Secondary Control Card   Crosspoint Card   Primary Control Card

Data port activity indicator LED's

Level Assignment dipswitches

Offset Assignment dipswitches

Data port activity indicator LED's

Secondary Control Active

Power Okay

+1.2V Fault

Programming Done

+5V Fault   +3.3V Fault

+2.5V Fault

Frame A Lock   Frame B Lock   Frame C Lock   Power