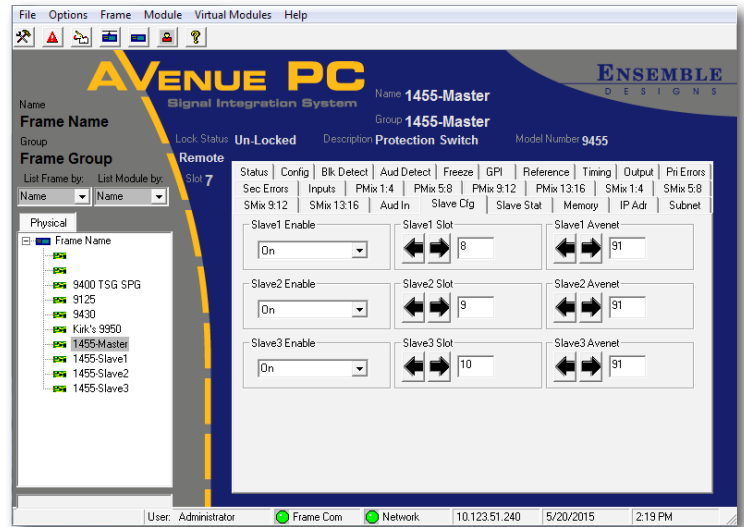


Avenue 1455 4K/UHD Protection Switch

Automatic Changeover for Critical Program Paths

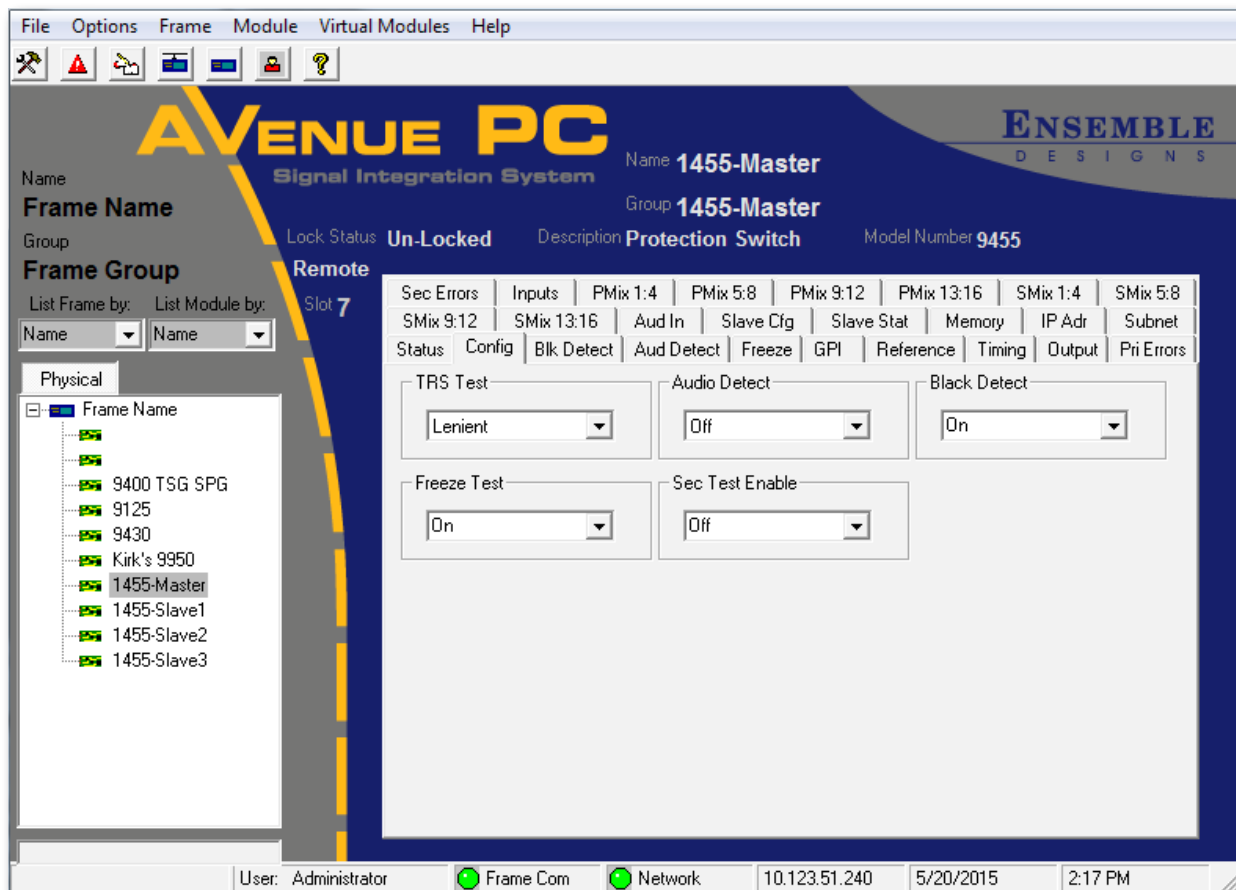
- Detects signal faults and switches automatically to back up path
- Quad-link interface in SQ or 2SI format
- Clean and quiet switch for 4K signals
- Use for clean switching of asynchronous sources for critical, live feeds
- Full frame synchronizer with adjustable delay
- Quiet audio switching
- Passes embedded audio
- External genlock reference input
- APIs and TCP/IP for automation control
- Fail-safe bypass in case of power failure
- Local and remote control
- Memory Registers



Tie slave modules together, forming an integrated quad-link system

4K Clean Switch That's Glitch-Free

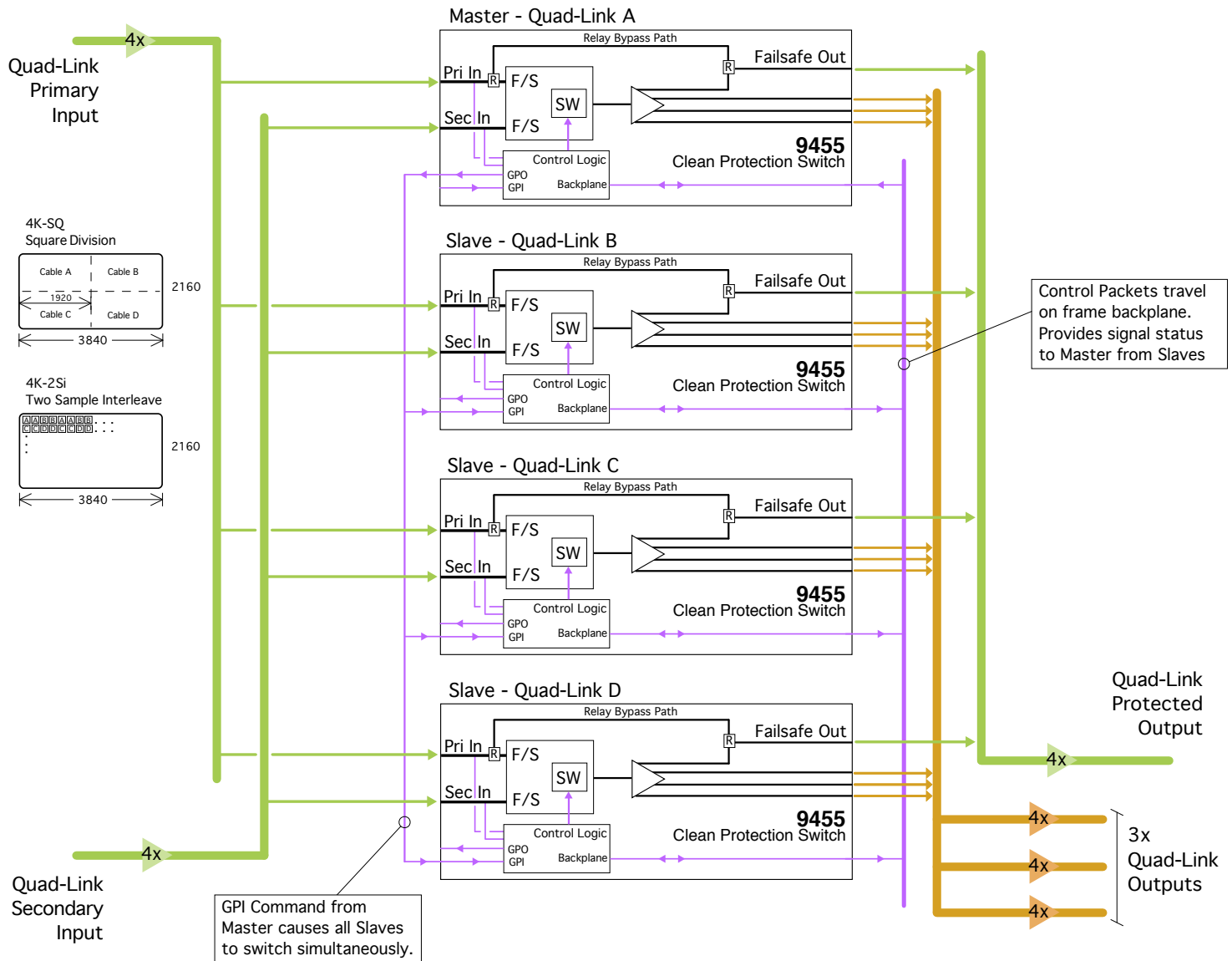
The Avenue 1455 ACO is a clean and quiet protection switch for critical 4K broadcast and satellite feeds. The 1455 uses sophisticated user-programmable parameters to detect signal failure in the primary or secondary quad-link inputs. In the event of a failure, the 1455 switches seamlessly to the backup – viewers downstream will never see the switch.



Configure fault detection to suit specific facility needs

Avenue 1455 4K/UHD Protection Switch

Functional Block Diagram



Specifications

Primary and Secondary Inputs

Number	2 quad-link inputs
Signal Type	4K 2160p 50 or 59.94 Hz, SMPTE 2036 SQ (Square Division) or 2SI (Two Sample Interleave)
Impedance	75Ω
Return Loss	>15dB to 1.485 GHz
Max Cable Length	2.97 Gb/s 70 meters Belden 1694A
Automatic Cable Input Equalization	

Protected Outputs

Number	4 quad-link outputs, including 1 fail-safe output
Signal Type	Follows input
Impedance	75Ω
Return Loss	>15dB to 1.485 GHz
Output DC	None (AC coupled)

Reference

Number	One via frame master ref input
Signal Type	Composite black, Tri-Level Sync, 10 MHz

Standards Supported

4K 2160p 50 or 59.94 Hz, SMPTE 2036 SQ (Square Division) or 2SI (2 Sample Interleave)
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General Specifications

1455 occupies 4 slots in an Avenue 3RU frame	
Power Consumption	60 watts
Temperature Range	0 to 40°C ambient (all specs met)
Relative Humidity	0 to 95% noncondensing
Altitude	0 to 10,000 ft