

General:

The Maxtron HD-5700/5701 are dual channel critical path routers for high definition 1.5Gb/s or standard definition 270Mb/s serial digital video signals and the AES3 audio stream. The two designs offer users the flexibility of field upgrades of performance and features.

The HD-5701 is the low-cost manual control 2 x 2 switcher. The user decides when to switch to the backup inputs. The switch can be initiated via GPI contact closure or RS-232 commands.

The HD-5700 offers unattended operation. It monitors the SDI and AES paths and automatically switches when the input signal is lost or becomes invalid based on a programmable set of input signal parameters. The main program (PGM) or the back-up input (PRV) signals can be automatically be routed to the primary program outputs (Protected) to ensure the delivery of a valid program output in the case of an input signal fault. The HD-5700 also provides two re-clocked primary outputs, and one re-clocked backup output. The program output is bypass relay protected and provides protection on the program path if power to the is lost. Optionally, the HD-5700 offers wired or wireless network control and monitoring.

Each model is housed in a half-rack wide, 1RU high enclosure. Rack mounting or desk top operation is available. Power is supplied from external power supplies. Redundant power supplies available.

Features:

The following features are common to both models:

- Automatic bypass of the main channel to the protected output upon power failure
- Switching can be controlled and monitored through the RS-232 serial port
- When there are redundant inputs, the cross over time to the backup signal is nearly instantaneous
- Switching can be controlled through the use of module GPIs
- Support for HD and SD SDI inputs per SMPTE 292M and SMPTE 259M-C

The HD-5700 offers the following expanded features:

- Auto sensing of HD, SD and AES3 input formats
- Automatic change-over based on input signal monitoring
- Generation of two re-clocked program outputs and one preview output (HD if HD inputs are applied, SD if SD inputs are applied)
- Front panel LEDs for reporting signal presence, router state, module status
- Remote monitoring and control using TCP/IP protocols
- Optional Wi-Fi interface

