Signal	TX (signal input) and RX (signal output). LEDs, one per signal channel, which illuminate green when a video sync pulse or a data stream is present. These LEDs will flicker when unsynchronized video (e.g., RGB) is present.
Link	RX only. Includes the following: Fiber 1 & Fiber 2: LEDs which indicate the fiber being used to communicate with the transmitter. Select: A push-button that toggles between the two fiber inputs. The default on power up is always Fiber 1, if the TX is already activated. Status: LED which illuminates green if the system has valid optical data.
Power	External: LED which illuminates green when 12 to 24 VDC of external power is supplied to the unit. Internal: LED which illuminates green after approximately 30 minutes of battery charging, and illuminates red when external voltage is absent and the battery is discharging.
Aux Input	TX only. LED which illuminates green when there is data present on the auxiliary input BNC.
Alarm	TX Alarm: An intermittent beep will sound when the alarm switch is on and the system is being powered by the internal battery backup. The alarm will stop automatically if external power is restored. RX Alarm: For power monitoring conditions, the RX alarm functions the same as the TX alarm. For fiber switching situations, the alarm will continue to sound even if the optical signal is restored, indicating to the user the type of malfunction that has occurred. The RX alarm Off/Reset slide switch on the front panel must be manually reset.

System Example

The combination of Telecast's DiamondBack video multiplexer and Telecast's Adder 161 Audio/Data multiplexer provides a powerful network solution for carrying audio, video and data economically from point to point. The Aux Input on the DiamondBack TX is intended for connection to the Adder 161. However, this external device can also be connected to any DiamondBack input channel switched to Data on the rear panel.

An example of an efficient use of the DiamondBack and the Adder 161 is shown in Figure 4. The Adder 161 can multiplex up to 16 channels of audio, 2 streams of digital data, and 4 switch closures for delivery on its coaxial output to the DiamondBack TX.