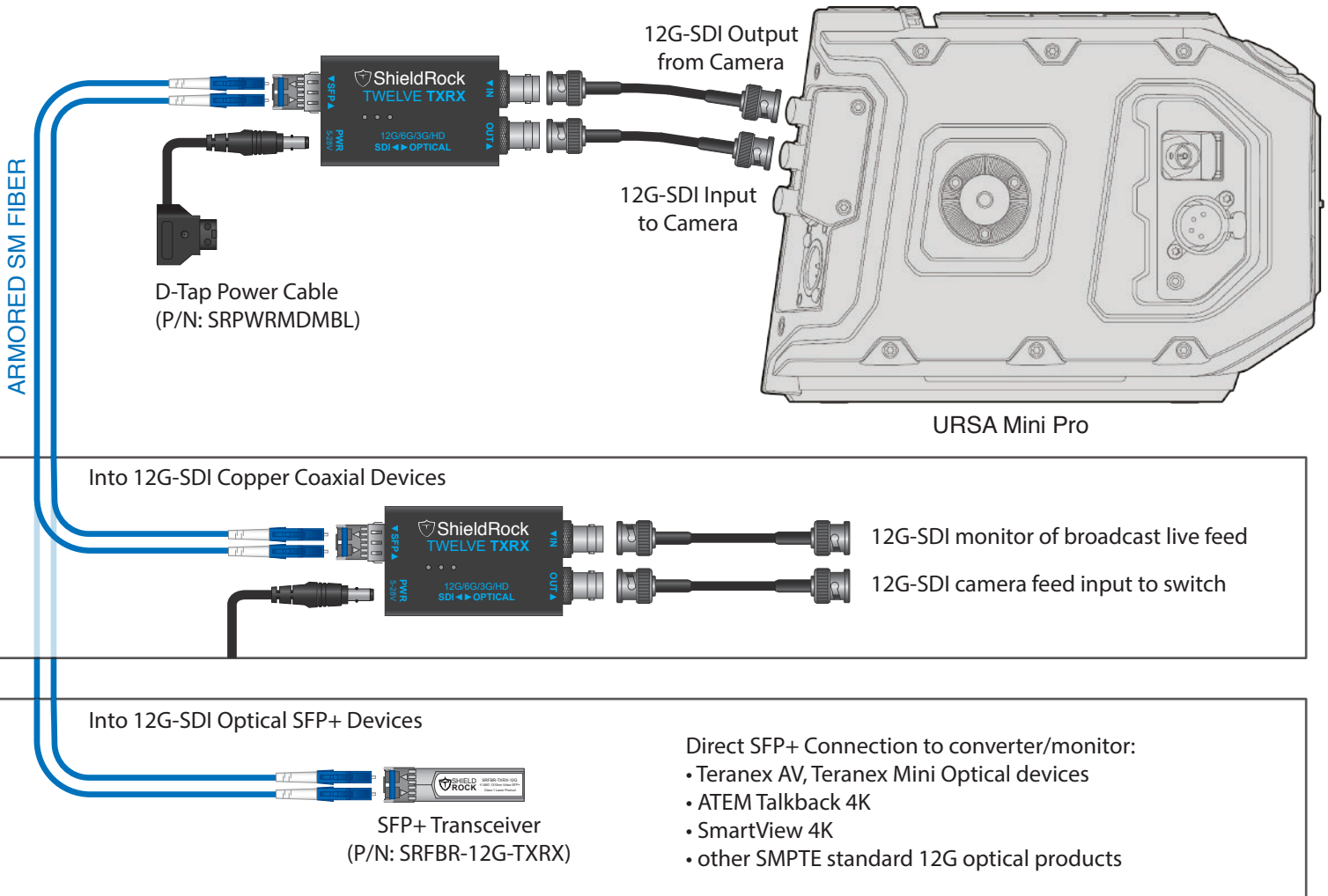


# Bidirectional Optical-12G with URSA Mini Pro



SLDRK  
APPNOTE

12G SDI



## Details

The TWELVE-TXXR is a bidirectional fiber optic extender which is capable of 11.88Gbps rates. It automatically switches between 12G, 6G, 3G, HD, and SD-SDI signals based on the detected rate on the input. The device supports the transmission of both video and audio signals over singlemode fiber optic cable.

The bidirectional functionality of the TWELVE-TXXR makes it the ideal device to connect the URSA Mini Pro over fiber optic cable for live production environments. 4K/UHD at up to 60p can be transmitted from the camera, while a monitor of the live broadcast feed can be sent back to the camera operator over the same duplex cable connection. Using a battery plate with a D-tap type connection allows for the TWELVE-TXXR to be powered from the same battery as the camera.

At the host/truck side of the connection another TWELVE-TXXR can be used to convert the signal back to coaxial copper 12G-SDI. In the case that the switching hardware supports SFP+ connections natively, the fiber cable can be connected directly. The 12G SFP+ from ShieldRock (P/N: SRFBR-12G-TXXR) are recommended to use on the host side also, and are available to be purchased separately.