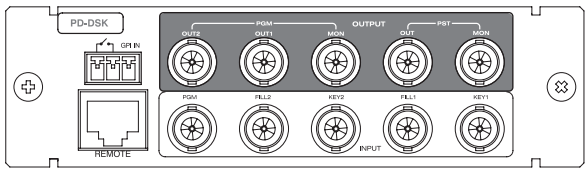
# PD-DSK SD-SDI Dual-Channel Downstream Keyer

The PD-DSK is a modular SD dual-channel downstream keyer. It is used in 1RU or 2RU PANDORA platform. 2-level linear keying is available on SD-SDI digital video inputs.

One program input and two pairs of key and fill inputs are supported. The keying signals can be inserted to the program simultaneously or individually. Four transition types at various speeds include fade-cut, cut-fade, V-fade and cut. The module provides 2 processed digital program outputs, 1 analog program output for monitoring, 1 digital preview output and 1 analog preview output for monitoring.

An RJ-45 connector is provided for control of dedicated control panel remotely. The module supports one-button triggered bypass protection via a programmable GPI interface. Program can be output without interruption even when power is off. Additionally, control of PD-MASTER application is supported.

## BACK MODULE




## SPECIFICATIONS

Specifications are subject to change without notice.

DIGITAL VIDEO INPUT

Signal Format.....SMPTE 259M-C, 270 Mbps, 525/625 component
Quantization.....10 bits
Connector.....BNC (×5)
Impedance.....75 Ω
Return Loss.....18 dB @ 270 MHz
Cable EQ.....<492 ft (150m) Belden 1694A cable or equivalent

DIGITAL VIDEO OUTPUT

Signal Format.....SMPTE 259M-C, 270 Mbps, 525/625 component
Quantization.....10 bits
Connector.....BNC (×3)
Impedance.....75 Ω
Return Loss.....18 dB @ 270 MHz
Amplitude.....800 mVp-p ±10%
Rise/Fall Time.....400 ~ 1500 ps, 20% ~ 80% of amplitude
Overshoot.....<10% of amplitude
Jitter.....<0.2UI

ANALOG VIDEO OUTPUT

Signal Format.....CVBS
Standards.....NTSC, PAL
Quantization.....8 bits
Connector.....BNC (×2)
Power Consumption.....10 W
Impedance.....75 Ω
Amplitude.....1.0 Vp-p±3%
Chr/Lum Delay Diff.....<5 ns
S/N Ratio.....>70 dB @ 6 MHz

ENVIRONMENTAL

Operating Temperature.....32° ~ 104° F (0° ~ 40° C)
Relative Humidity.....10% ~ 90%

## KEY FEATURES AND BENEFITS

— 2-level keying, hard key and transparent key available
— 4 selectable keying modes
— 3 transition speeds
— Auto sync to external reference signals
— Reclocking and cable equalizing supported input channels
— Supports preview output
— 2 analog outputs for monitoring
— By-pass protection
— Supports network monitoring in PANDORA platform
— Non-volatile memory
— Hot-swappable

## BLOCK DIAGRAM