PD-DSK-HD   HD/SD-SDI Tri-Channel Downstream Keyer

The PD-DSK-HD is a modular HD/SD tri-channel downstream keyer. It is used in 1RU or 2RU PANDORA platform. 3-level linear keying is available on SD/HD-SDI digital video inputs.
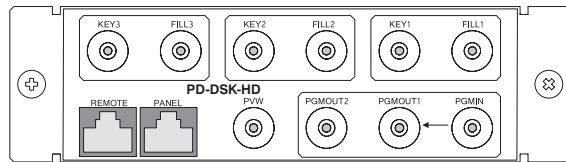
One program input and three pairs of key and fill inputs are supported. The keying signals can be inserted to the program simultaneously or individually. Four transition types at various speeds include fade-cut, cut-fade, V-fade and cut. The module provides 2 processed digital program outputs and 1 digital preview output.

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.
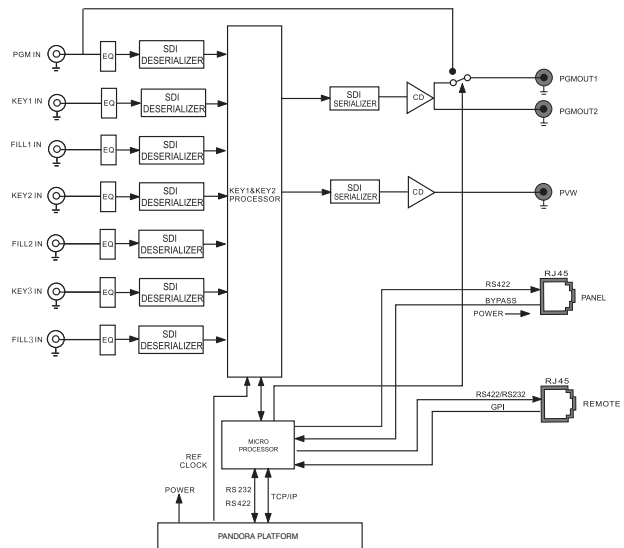
KEY FEATURES AND BENEFITS

— 3-level keying, hard key and transparent key available
— 4 selectable keying modes
— 3 transition speeds
— Auto H-sync to program input
— Reclocking and cable equalizing supported input channels
— Keying operations on program via Take button
— 1 HD/SD-SDI preview output
— Supports dual-channel GPI triggering
— By-pass protection
— Supports network monitoring in PANDORA platform
— Non-volatile memory
— Hot-swappable

BLOCK DIAGRAM

BACK MODULE

SPECIFICATIONS

Specifications are subject to change without notice.

DIGITAL VIDEO INPUT
Signal Standard…………………SMPTE 259M SD-SDI
                                SMPTE 292M HD-SDI
Quantization………………………10 bits
Connector…………………………BNC (×7)
Impedance………………………75 Ω
Return Loss………………………18 dB @ 270 MHz, SD
                                15 dB @ 1.485 GHz, HD
Cable EQ…………………………<1000 ft (300 m), SD
                                <530 ft (160 m), HD
                                Belden 1694A cable or equivalent

DIGITAL VIDEO OUTPUT
Signal Standard…………………SMPTE 259M SD-SDI
                                SMPTE 292M HD-SDI

Quantization………………………10 bits
Connector…………………………BNC(×3)
Impedance…………………………75 Ω
Return Loss………………………>18 dB @ 270 MHz, SD
                                >12 dB @ 1.485 GHz, HD
Amplitude…………………………800 mVp-p ±10%
Rise/Fall Time……………………<800 ps, SD; <135 ps, HD
                                20% ~ 80% of amplitude
Overshoot…………………………<10% of amplitude
Jitter………………………………<0.2 UI

ELECTRICAL
Power Consumption……………10 W