

Crystal Vision



8 x 8 Routing Switch



The SW808 is an SDI 8 x 8 crosspoint routing switch with a difference. This 100mm x 266mm module fits in Crystal Vision's standard frames, allowing it to be easily integrated with the full interface range and saving you valuable rack space compared to a stand-alone routing switch.

Ideal as a small or secondary matrix, the ASI compatible SW808 can send the eight inputs to any of the eight outputs, with two feeds of each potentially reducing the need for additional distribution amplifiers.

The SW808 is a 'double decker' PCB which sits in two frame slots. It is used with the RM19 frame rear module which takes up four of the slots in a 2U or 4U frame for one SW808 and allows the maximum eight inputs and eight outputs.


Timing information is provided by either SDI or analogue references, allowing the SW808 to switch in the vertical blanking interval to avoid picture disturbance. The designated switching lines are 6 and 319 in 635 line systems and 10 and 273 in 525 line. The SW808 can also be set to switch immediately – useful in cases where there is no common reference. The RM19 rear module has both SDI and analogue reference inputs, with an SDI reference loop allowing a source to be wired as both a matrix signal input and a reference input.


Whichever method you choose, control is quick and easy: select output, select input and press the 'Take' button. Alternatively up to 16 salvos can be created and stored to change a number of outputs at once. Inputs and outputs can be named for additional ease of use.


The flexible control options include board edge, an active front panel on the frame, a remote control panel, GPIs, SNMP and the Statesman PC software. GPIs can be used to recall presets and macros, allowing you to pre-configure the SW808 for various situations and then recall these configurations when required.


For those who prefer more traditional buttons, the SW808 Controller is a 1U control panel offering tactile and easy operation of one SW808. It has dedicated buttons for each of the eight destinations and eight sources – each with an associated input present LED – as well as buttons for 'Take' and the 'Save' and 'Recall' of salvos. Labels can be inserted under the keycaps to give meaningful names to sources and destinations. The illuminated switches have been carefully chosen to give a smooth and quiet action, while the "off" switch is dimly lit, rather than dark, to simplify operation in low light. At only 90mm deep the SW808 Controller fits easily in a control desk and is ideal for live operation and for when the SW808 has regular adjustment.


The SW808 is ideal for use as part of a wider interface system. It is perfect for small studio uses such as routing the feeds from eight video recorders to eight edit suites, or for providing a selection of backgrounds for the Safire digital chroma keyer.



SDI 8 x 8 crosspoint
routing switch


Part of interface
system, fitting in
standard frames


'Double decker'
100mm x 266mm
module, with six
SW808 in 4U and
three in 2U

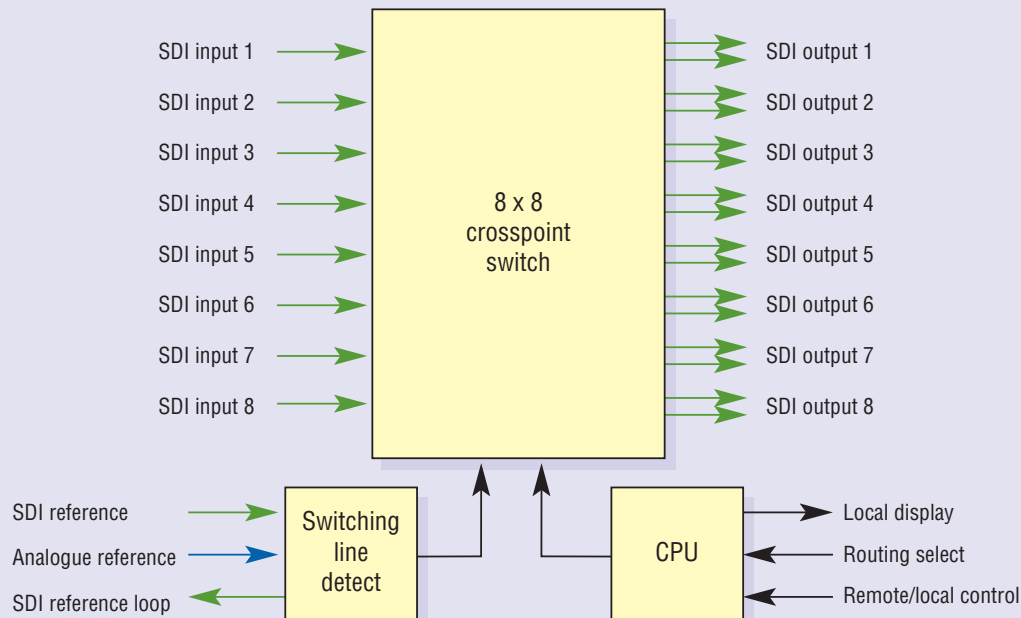

SDI or analogue
references provide
timing


Salvos creation


Flexible control,
including
configurable GPIs,
dedicated control
panel, SNMP and PC
software



Ideal for live use – the SW808 Controller



SPECIFICATION

MECHANICAL

'Double decker' module 266mm x 100mm (uses two frame slots)
Weight: 268g
Power consumption: 10.5 Watts

VIDEO INPUTS

Eight SDI inputs
SDI 270Mbit to EBU 3267-E and SMPTE 259M
Cable equalisation >200m Belden 8281 or equivalent
Auto 625/525 line selection

VIDEO OUTPUTS

Eight SDI outputs with RM19 frame rear module (with two copies of each output)
SDI 270Mbit to EBU 3267-E and SMPTE 259M

Will drive >200m Belden 8281 or equivalent
All outputs DVB-ASI compatible

SDI REFERENCE

SDI 270Mbit to EBU 3267-E and SMPTE 259M
Cable equalisation >200m Belden 8281 or equivalent
Auto 625/525 line selection
SDI reference loop-through with RM19

ANALOGUE REFERENCE

Composite Black and Burst or mixed syncs
Sync amplitude 100mV to 4V
Link selects 75 ohm termination or high impedance
Auto 625/525 line selection

SWITCHING

Vertical interval switching to SMPTE RP168

DELAY THROUGH BOARD

20ns

LED INDICATION OF:

Power supplies on board
SDI reference present
Analogue reference present
625/525 reference input standard
Multipurpose LEDs show either SDI inputs present, routing selected or routing about to be selected

LOCAL CONTROL

Routing selection
Factory calibration
Remote/local control
SDI/analogue reference
Frame rate/field rate/instantaneous switching

GPI INPUT LEVELS

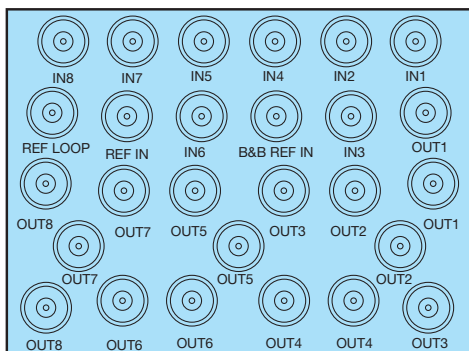
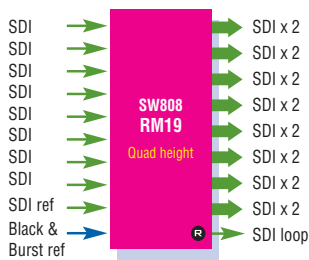
Active pull to ground, pulled up to +5V through 6800 ohm

GPI INPUTS

Five GPI inputs can be used to recall routing presets or macros

REMOTE CONTROL

RS422/485
19200 baud, 8 bits, 1 stop no parity
Front panel control from frame active front panel and remote panel
The SW808 Controller is a dedicated 1U control panel for one SW808
Statesman allows control from any PC on a network
SNMP monitoring and control available as a frame option



RM19

ORDERING INFORMATION

| | |
|------------------|---|
| SW808 | SDI 8 x 8 crosspoint routing switch |
| Indigo 4 | 4U frame with passive front panel for up to 24 Crystal Vision modules |
| Indigo 4SE | 4U frame with passive front panel fitted with Statesman CPU for up to 24 Crystal Vision modules |
| Indigo 2 | 2U frame with passive front panel for up to 12 Crystal Vision modules |
| Indigo 2AE | 2U frame with active front panel for up to 12 Crystal Vision modules |
| Indigo 2SE | 2U frame with passive front panel fitted with Statesman CPU for up to 12 Crystal Vision modules |
| RM19 | Four slot frame rear module. One rear module used for one SW808, allowing six SW808 in 4U and three in 2U. Gives access to all eight inputs, all eight outputs with two feeds of each, SDI and analogue reference inputs, and an SDI reference loop |
| SW808 Controller | 1U dedicated control panel for one SW808 |
| REMIND | 19" remote control panel |
| REMIND-E | 19" Ethernet remote control panel |
| Statesman | PC Control System |
| SNMP | SNMP monitoring and control |

Note: Crystal Vision 1U frames and desk top boxes are also available, but cannot house the four-slot high RM19 rear module

Performance and features are subject to change. Figures given are typical measured values. SW8080211