

FEATURES

- Equalising & re-clocking
- Transparent to ancillary data
- Timing reference input
- Clean switching
- Auto-changeover modes
- Input priority selection

SELECTION OF ONE SERIAL DIGITAL OUTPUT FROM TWO SERIAL DIGITAL INPUTS.



Automatic equalisation is provided on all inputs and the output is relocked. Input selection is made using switches on the front panel of the module or remotely over DART from a PC or dedicated control panel. The unit is capable of making a 'clean' switch between the two inputs maintaining continuity of the synchronisation data in the serial digital stream. This prevents momentary 'unlocking' of downstream equipment when cutting between video sources. The unit switches at the line interval reference and the switching line number can be selected by the user. One input can be nominated as the reference input for the switching point. After selection of the chosen input, the Ref Select switch on the front panel is pressed.

Once programmed, all subsequent switching will occur at the same point in that input whether it is the selected input or not. 'Clean switching' will result so long as the timing difference between the inputs is no greater than $\pm 75 \mu\text{S}$. The output is delayed by $75 \mu\text{S}$ relative to the nominated input. Alternatively an external analogue Black and Burst reference input is provided. The selected switching point will be taken from the reference signal. 'Clean switching' will result so long as the timing difference between the any input and the reference is no greater than $\pm 75 \mu\text{S}$. The output is delayed by $75 \mu\text{S}$ relative to the reference. In addition the figure of $75 \mu\text{S}$ for all the parameters listed above can be reduced to $1.5 \mu\text{S}$ in 8 discrete steps by user programmable switches.

The V1650 Router Remote Control Interface Module is available to piggy-back onto the V165X series router modules to provide isolation between the on-board control system and any custom control panels. This module occupies another module slot and provides a rear panel connector for the additional control panel. It is only intended for situations where direct remote control of the V165X router is required. Normally these router modules can be controlled via any of the Vistek control systems without the need for this additional module.

Technical Specification

Serial Inputs (2)

| | |
|--------------------|---|
| Sampling | 4:2:2 or 4fsc, 10 bit |
| Line/field rate | 525/60 and 625/50 |
| Bit-serial | To ANSI/SMPTE 259M-1993 and EBU Tech.3267-E |
| Data rate | 143, 177, 270 & 360Mb/s |
| Cable equalisation | Automatic up to 250m (Belden 8281) |
| Impedance | 75 ohm terminating |
| Return loss | >15dB, 5-270MHz |

Serial Output

| | |
|---------------------|---|
| Bit-serial | To ANSI/SMPTE 259M-1993 and EBU Tech.3267-E |
| Data rate | 143, 177, 270 & 360Mb/s |
| Cable drive | Up to 250m (Belden 8281) |
| Signal | NTSC/PAL 1Vp-p composite color black |
| Impedance | 75 ohm |
| Return loss | >15dB, 5-270MHz |
| Amplitude | 800mV p-p (terminated) |
| Rise and fall times | 0.75ns - 1.5ns |
| Data jitter | +/- 250ps |

Analogue Reference Input

| | |
|-------------|-------------------------------|
| Signal | Color black, 1V p-p composite |
| Connector | BNC |
| Termination | 75 ohm |
| Return loss | >35dB to 5.5MHz |

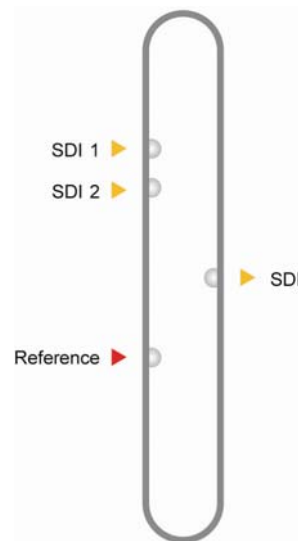
Ordering Information

| | |
|-------|------------------|
| V1651 | SDI 2 x 1 Switch |
|-------|------------------|

All Pro-Bel's quoted prices for interface modules include the supply of one suitable rear module. Please specify type required when placing order:

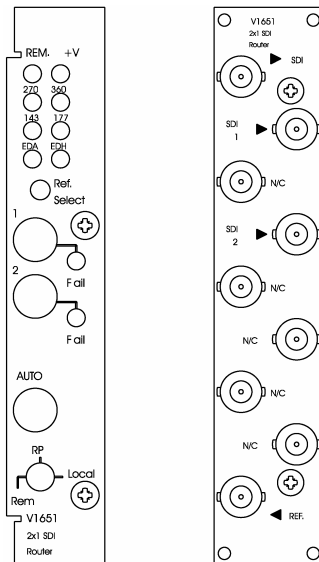
| | |
|---------|-----|
| V16VR3B | 3RU |
| V16VR1B | 1RU |

Note: Special versions of rear module are available on request.



Controls

| | |
|----------------|----------------|
| Source Select | A or B |
| Operating Mode | Auto or Manual |
| C/O Mode | |



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