

VX-4026 CONFIGURABLE RELAY SWITCHING CARD

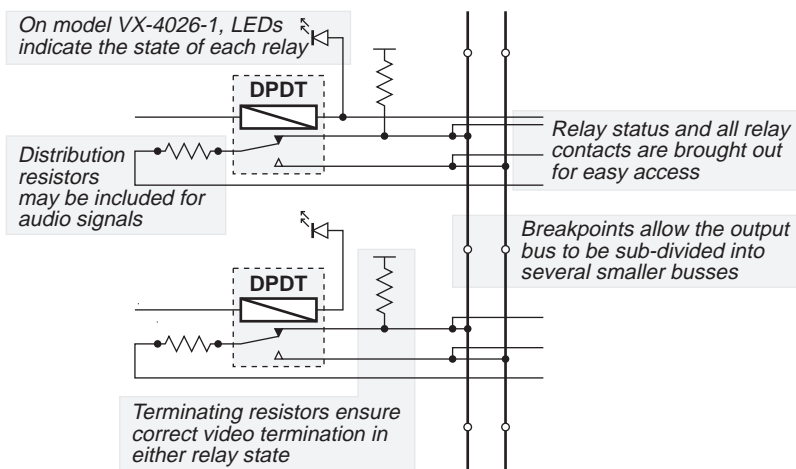
INFOMATICS

Model VX-4026-1 has up to 8 on-board relays with full access to all contacts on all relays, which is useful for changeover switching and alarm monitoring systems. Model VX-4026-2 has two banks of 8 relays, the second bank operating as a slave 1 from 8 selection with separate control, suitable for matrix switching applications where space and cost may be at a premium.

The signal paths themselves are arranged for flexible configuration. By using on-board links, a pair of contacts from each of the relays can be bussed together providing, for instance, source selection and matrix switching applications. Relays may be bussed together in groups of varying sizes, accommodating a video and audio bus on a single card. For larger matrices, several cards can be cascaded.

Resistors installed on the PCB can be used to terminate inputs that are not switched through to the output bus, which is particularly important for video switching, whilst on-board series distribution resistors can be used for audio applications. Signal routes are carefully impedance-matched and screened by a groundplane giving excellent transmission and crosstalk performance.

Synoptic diagram showing two relays



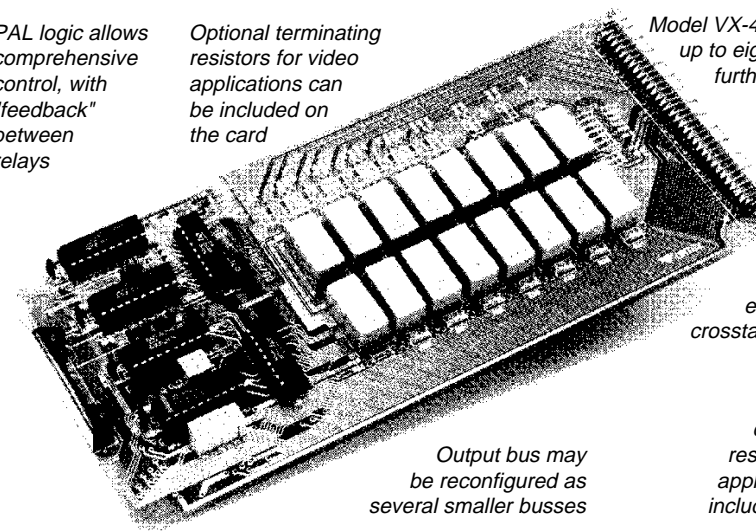
VX-4026 UNIVERSAL CONFIGURABLE RELAY MATRIX SWITCHING CARD

VX-4026

PAL logic allows comprehensive control, with "feedback" between relays

Optional terminating resistors for video applications can be included on the card

Model VX-4026-1 supports up to eight relays with a further eight parallel input relays on VX-4026-2



Screened copper paths ensure excellent crosstalk performance

Optional components for resistive audio DA applications can be included on the card

Output bus may be reconfigured as several smaller busses

SPECIFICATIONS

Card format	220x100mm Eurocard
Audio Bandwidth	20Hz-20kHz ± 0.2 dB
Crosstalk	Better than -90dB at 14kHz
Video Bandwidth	6 MHz - 0.2dB
Crosstalk	Better than -50dB at 4.43MHz
Operating time	7ms, bounce approx 0.3ms
Release time	3ms, bounce approx 1.5ms
Relays	5V, 12V or 14V
Maximum number per card	8 (VX-4026-1) or 16 (VX-4026-2)
PAL equations	One per relay
Maximum array size	48x48

DESCRIPTION

VX-4026 Universal Relay Switching Cards are configurable programmable Eurocard modules suitable for routing broadcast audio, video and control signals. With a copper path from the input connector to the output, the cards may safely be used in the broadcast transmission chain and frequently form part of automatic transmission backup systems. High quality DPDT sealed relays with Ag/Au-clad contacts (conforming to FCC Part 68) are used to ensure noise-free fast changeover between programme signals. **Programmable Logic Arrays (PALs)** provide each relay with its control signal to operate or release. The VX-4026 card is configured so that these signals are derived from logical combinations of the control inputs and status signals from the relays themselves. This flexibility and reliability of control does not use microprocessor or real-time software, and makes system design and rack/control panel cabling very straightforward. It also minimizes the number of relays required to perform quite complex operations, in turn reducing the number of relays through which the signal must pass. Relay status is derived from the drivers themselves, and is brought to the edge connector (as well as to the front-of-board LED status on the eight-relay model VX-4026-1).

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