TE electronics LTD

Tel: +44 (0)118 933 2533
Fax: +44 (0)118 933 1224
email: sales@teelectronics.co.uk

THE JACKDAW, THE DEVIL'S HIGHWAY
MORTIMER WEST END, READING, BERKS RG7 2AD, UK

TE3203 LOCAL/REMOTE VGA SELECTOR

A compact, mains powered stand alone VGA selector designed to allow the local user's monitor to display either the local PC signal or a signal from a remote PC. This capability is often useful in TRAINING suites. The bandwidth is suitable for use up to XGA resolution.

Audio follows the selected video and control of the source is by a choice of several remote and local contact closure protocols. The local user has a push button over-ride and LED status indicators. The local control and LED indicators can be duplicated on a separate panel by using the front panel "Local Control" connector.

Local signals use standard VGA and audio cables while the remote signals use RGBHV coaxes and BNC connectors plus balanced audio. The balanced audio and remote control signals are input to a 0.2" two part screw terminal connector. The RGBHV coax inputs have isolated grounds to avoid earth loop problems.

There is a priority option that causes the TE3203 to switch to REMOTE whenever the remote signal is present.

The default/power-up state is "Local".

Power requirement:	230V ac, 6VA. (115V version available on request.)
RGB bandwidth/Impedance:	dc to 200MHz/75Ω
Overall dimensions:	135mm wide x 54mm high x 150mm deep

The ABS case has provision for fixing to a mounting surface or can be free standing.

REMOTE CONNECTIONS

All remote inputs connect to the rear panel (right hand picture above).

RGBHV
The five remote "video" RGBHS signals are connected to isolated BNC sockets with differential inputs. This avoids any problems due to earth loops. The input impedance is 75Ω. Internal PCB links allow the H and V ports to be set as TTL inputs.

CONTROL AND AUDIO
The remote control and audio signals are input on a two part 8w 0.2" screw terminal connector. The audio inputs are balanced line level. The control inputs are contact closures or TTL signals, including an edge triggered switchover facility with selectable edge polarity.

Connections, numbered left to right, are:

1	Common/0V	5	Left Audio +
2	Local/Remote, Edge triggered: Rising = Local; Falling = Remote (see 3)	6	Left Audio -
3	!Invert pin 2 logic	7	Right audio +
4	Audio Screen	8	Right audio -

NB: In the logic functions above, a preceding ! denotes "Active Low" , eg "!Local" = achieve the "Local" state with an input that is low/0V/contact closure to 0V.

LOCAL CONNECTIONS

All local connections are made to the front panel (left hand picture above).

MAINS INPUT
The 230V 50Hz supply is input via a three terminal IEC connector. An earth is required. The TE3203 is supplied with 2m IEC to BS1363 lead (other lead and voltage options available).

LOCAL INPUT
The local PC video and audio are input to a standard VGA 15w high density "D" socket and 3.5mm stereo jack socket respectively.
A standard male to male VGA cable will connect to the PC monitor socket.
A male to male stereo 3.5mm jack plug audio cable will connect to the PC audio output.
The TE3203 is supplied with 2m leads as standard. Other lengths/types can be supplied on request.

LOCAL OUTPUT
The local PC video and audio are output on a standard VGA 15w high density "D" socket and 3.5mm stereo jack socket respectively, simulating the standard PC connectors.
No leads are supplied as these are normally part of the target equipment.

LOCAL CONTROL/STATUS

Local control signals and status outputs are connected via the two part 3.5mm 2 row 8w spring clamp connector.

Connections, numbered left to right, bottom row first, are:

1 Control Common/0V
2 !Local
3 !Remote
4 !Toggle Loc/Rem (≡ panel push button)
5 Indicator LED common/0V
6 Drive for ext “LOCAL” LED indicator*
7 Drive for ext “REMOTE” LED indicator*
8 !Remote Priority**

NB: In the logic functions above, a preceding ! denotes “Active Low” , eg “!Local” = achieve the “Local” state with an input that is low/0V/contact closure to 0V.

NOTE: Logic inputs 2, 3 and 4 are **momentary** (approx 0.25s or more). Holding inputs 2 or 3 low will prevent other input commands from having any effect. Holding input 3 low will prevent the front panel push button from having any effect.
* 1k from +5V giving typ 3mA drive to a LED (use high efficiency LEDs).
** Grounding this pin will automatically cause “REMOTE” to be selected whenever a sync signal is detected on the Remote “H” input.
