IRT COMMUNICATIONS

3G | HD | SD | ASI

DVS-4080

3G/HD/SD-SDI / ASI Digital Video Switcher & Router

FEATURES

- 3G-SDI, HD-SDI, SD-SDI or ASI capable.

- 8x1 or dual 4x1 switching operation.

- 8x2[1] or 4x2 router setup.

- Automatic muting on loss of inputs.

- Front panel local control with remote control option.

- Web browser or SNMP monitoring and control options.

GENERAL

The DVS-4080 digital video switcher is part of a family of "smart" switchers in Eurocard format that may be linked and configured by the user to cover a wide range of switching and monitoring functions.

On board configuration is possible to allow the DVS-4080 to be used as an 8x1 switcher with 2 common outputs; a dual independent 4x1 switcher; an 8x2[1] or 4x2 router.

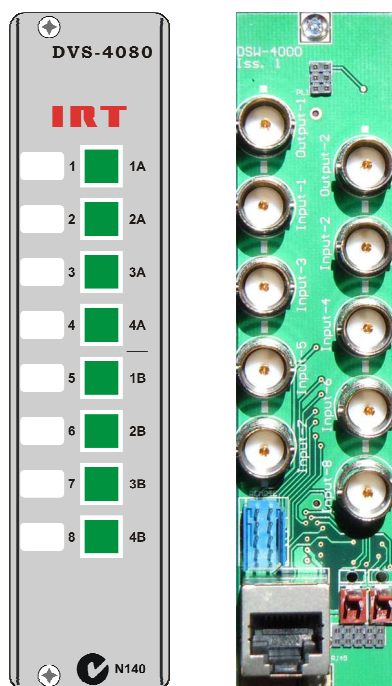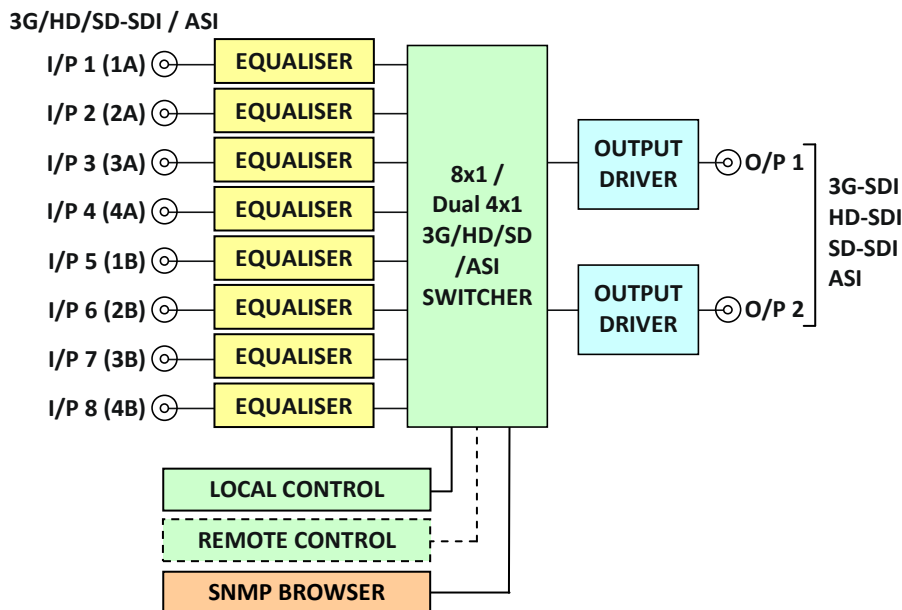Local control is via front panel switches.

Remote control is via momentary wire per crosspoint (WPX) control allowing interface to the DVS-4080-RC remote control panel or a telemetry system, and SNMP via the frame.

Front panel switches can be disabled for tally indication only, or a 2 second press to operate function added, so as to prevent accidental switching when intending only to use one of the remote control options.

The DVS-4080 is designed to fit IRT's standard 1RU and 4000 series 3RU frames and may be used alongside any other of IRT's analogue or digital Eurocards.

Also available in an openGear® frame format.

BLOCK DIAGRAM DVS-4080 SIGNAL PATH

3G/HD/SD-SDI / ASI

I/P 1 (1A) → EQUALISER
I/P 2 (2A) → EQUALISER
I/P 3 (3A) → EQUALISER
I/P 4 (4A) → EQUALISER
I/P 5 (1B) → EQUALISER
I/P 6 (2B) → EQUALISER
I/P 7 (3B) → EQUALISER
I/P 8 (4B) → EQUALISER

8x1 / Dual 4x1 3G/HD/SD /ASI SWITCHER → OUTPUT DRIVER → O/P 1
→ OUTPUT DRIVER → O/P 2

3G-SDI HD-SDI SD-SDI ASI

LOCAL CONTROL
REMOTE CONTROL
SNMP BROWSER

TECHNICAL SPECIFICATIONS

Signal inputs:

Number	8.
Type	3G-SDI, HD-SDI, SD-SDI or ASI.
Automatic cable compensation	> 100 m at 2.97 Gb/s (3G-SDI) with Belden 1694A;
	> 100 m at 1.485 Gb/s (HD-SDI) with Belden 1694A;
	> 250 m at 270 Mb/s (SD-SDI/ASI) with Belden 8281.
Impedance	75 Ω.

Signal outputs:

Type	2 x 800 mV ±10% into 75 Ω.

Control inputs:

Type	Momentary wire per crosspoint (WPX) grounding contacts (Front panel push button switches or optional remote control panel).

Performance:

Return loss	> 15 dB 5 MHz to 1.5 GHz;
	> 10 dB 1.5 GHz to 2.97 GHz.
DC offset	0 V ±0.5 V.
Output rise and fall time	< 135 ps at 2.97 Gb/s and 1.485 Gb/s;
	0.4 ns and < 1.5 ns at 270 Mb/s.
Intrinsic jitter	< 0.3 UI at 2.97 Gb/s reclocked;
	< 0.2 UI at 1.485 Gb/s reclocked;
	< 0.1 UI at 270 Mb/s reclocked.

Power Requirements:

Voltage	28 Vac CT (14-0-14) or ± 16 Vdc.
Power consumption	< 5VA.

Connectors:

3G/HD/SD-SDI / ASI	BNC.
Control	Plug in 10 pin HE14 dual IDC.

Other:

Temperature range		0 - 50° C ambient.
Mechanical		Suitable for mounting in IRT 19" rack chassis with input, output and power connections on the rear panel.
Finish:	**Front panel**	Grey background, black lettering & red IRT logo.
	Rear assembly	Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.
Dimensions		6 HP x 3 U x 220 mm IRT Eurocard.

Supplied accessories	Rear connector assembly including matching connectors for control inputs & outputs.
Optional accessories	DVS-4080-RC remote control panel with 8 pushbuttons & tally LED's.

Ordering	**DVS-4080**	Standard, programmed with SNMP option.
	DVS-4080-RC1	Remote control panel with 8 pushbuttons & tally LED's (for remote 8x1 or local 8x2 operation).
	IRT-6080	openGear® version (see separate brochure).