

RR1401A RF Multi-Switch

The RR1401A is a range of high performance, extended frequency, HF switching units, designed to complement the RR1003 series of HF Signal Exchange (Matrix) Units, in applications where large numbers of inputs (i.e. greater than 16) are involved. The unit comes in two variants either a –322T, which is an array of 32 independent single pole double throw switches, or the –164T, which is an array of 16 independent single pole four throw switches. The unit incorporates 50Ω terminations to ensure that any deselected input is correctly matched for optimum system performance. Control of the unit is affected via a standard RS232C serial interface, with commands echoed back to confirm satisfactory operation. Other remote control interfaces can be accommodated, details on request. A highly modular form of construction has been utilised to facilitate ease of maintenance; the unit is 19" rack mountable, occupying 3U (4.25", 133mm) of vertical space. The unit can be partially fitted with selected switches.

Specification		Parameter
Frequency Range		DC – 40MHz
		Up to 64
Number of Inputs	RR1401A-322T	64
	RR1401A-164T	64
Number of Outputs	RR1401A-322T	32
	RR1401A-164T	16
Switch Type	RR1401A-322T	SPDT (Terminating)
	RR1401A-164T	SP4T (Terminating)
Insertion Loss		0.3dB Maximum
VSWR Input/Output (50Ω)		1.3: 1 maximum
Isolation	- Input to Input	-70dBc
	- Output to Output	-70dBc
Maximum Power Handling		+30dBm
Switching Time		10ms maximum
Remote Control Input		RS232 serial data
Power Supply		+24V DC @ 0.8A
Front Panel (Optional)	- Local Control	Pushbutton keypad
	- Display	40 x 2-line LCD display
Connectors	- RF	BNC Socket
	- RS232 Control	25-way D-type socket
	- Power (dc)	3-pin AXR Plug

Specialists in RF techniques

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Specification

Dimensions

- Width

Parameter

483mm (19" rack mounting)

- Depth

360mm

- Height

153mm, 3U

Temperature Range

- Operating

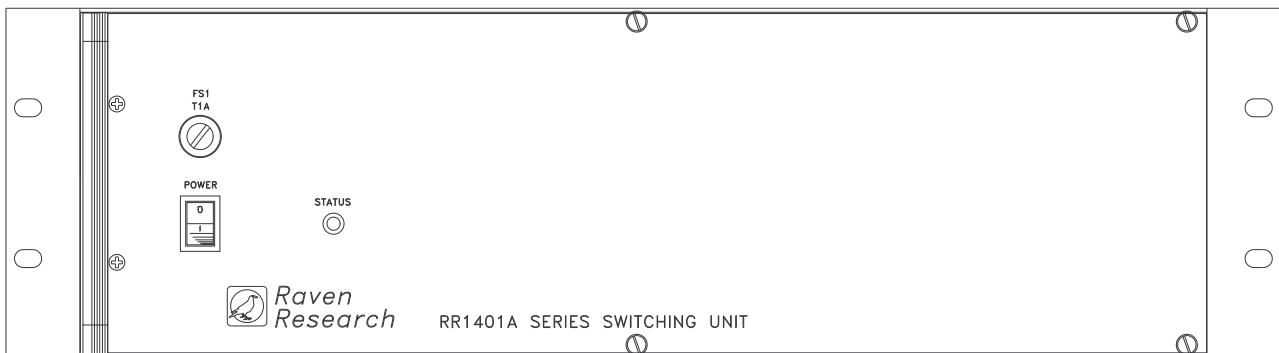
0°C to +55°C

- Storage

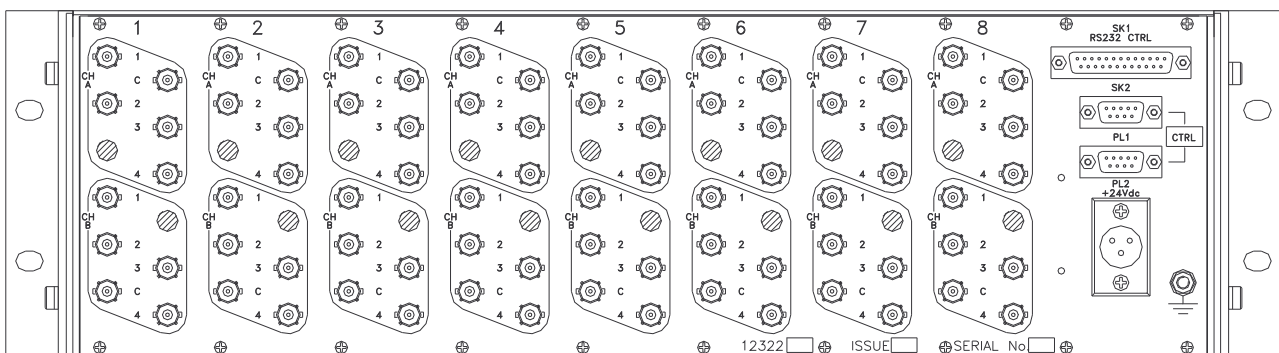
-10°C to +70°C

Options:

- Partial Fitting of switching channels
- AC Power Supply
- RS485 Bit-bus Control, Parallel Bus Control (for fast switching)



FRONT PANEL LAYOUT RR1401A-164T



REAR PANEL LAYOUT RR1401A-164T