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PSG-2003A

Universal Switching Corporation

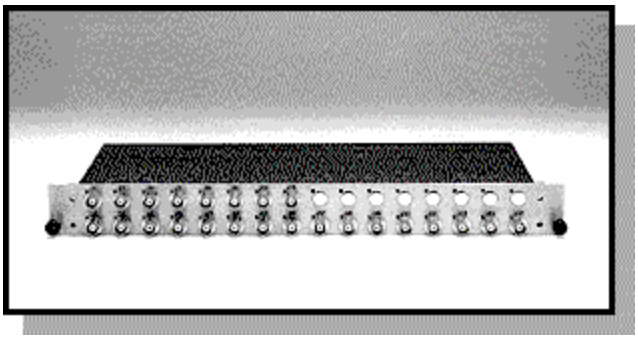
USmod Family:
Switching Modules

NOT RECOMMENDED FOR NEW DESIGNS
(Still Available)

This series of modules are designed to be a flexible and comprehensive solution to many types of switching requirements. Modules are available for most any application. They are designed to install into compatible USmod mainframes.

Main Features

- Compact size
- Low cost per crosspoint
- High reliability and quality
- Advanced control and status features



A typical USmod 16x8 matrix switching module (VS32).

USmod Switching Modules

This versatile series of products offers the user a multitude of switching solutions in a modular format. The USmod series provides modules designed to be installed into any of the USmod compatible mainframe chassis. The mainframes provide power and control to the modules, and a standard 19" rackmount package. Switching is offered from simple 1x2's to 32x32 switching arrays (matrices). Blocking and non-blocking arrays are available spanning the DC to 40GHz frequency range.

They are listed by "maximum" frequency range order beginning with low frequency (DC) to the highest (40GHz). Each module has its own characteristics and features. For easy identification, modules that begin with the **"VR"** designation have a relay based switching element technology while the modules with the **"VS"** designation have a solid-state design. To review detailed information, select the Series desired on the left side of the table. Typical applications for each module type is included on the right side of the table.

Table of Modules

Series Number	Switching Elements	Frequency Range	Isolation (dB)	Impedance	Min Size	Max Size	Slot Profile	Standard Conn Type	Applications
VSP6	Solid-state	DC-400Hz	n/a	n/a	1x1	1x6	2	Trml Strip	• ATE Power • Power drop-out simulations • Automate equipment On/Off
VSA64	Solid-state	DC-2MHz	>82 @ 10kHz	50, 75, 600	8x8	32x32	1	Multi-pin	• Audio switching • Instrumentation • ATE signal routing
VRATE32	Relay-based	DC-5MHz	>70 @ 1MHz	50, 75, 600	8x8	16x16	1	Multi-pin	• Automated test • General purpose switching
VST1	Solid-State	T1 or E1data (unidirectional)	n/a	100 or 120 (balanced)	8x8	32x32	3	RJ-45	• Digital data routing • Telemetry signals • Computer data routing
VSD64	Digital	DC-10Mbps	n/a	120 ('422)	8x8	32x32	1	Multi-pin	• Digital data routing • Telemetry signals • Computer data routing
VS32L	Solid-state	DC-50MHz	>50 @ 10MHz	50, 75	8x2	16x16	1 to 2	BNC	• Telemetry IRIG signals • NTSC or PAL video • General purpose switching
VSVGA	Solid-state	DC-75MHz	>50 @ 10MHz	75 (RGBHV)	4x4	16x8	3	Std VGA	• Workstation video • Security video • Classroom video
VS32	Solid-state	DC-160MHz	>70 @ 10MHz	50, 75	8x2	16x16	1 to 2	BNC	• RGB video switching • RGBSV video • Radar or IF switching
VS32IF	Solid-state	5MHz-250MHz	>70 @ 200MHz	50	4x4	32x32	4	BNC	• High performance IF • Antenna routing
VS96	Solid-state	DC-250MHz	>40 @ 250MHz	75	8x8	32x32	2 to 4	BNC (75 ohm)	• Ultra-high performance video
VRATT	Relay-based	DC-700MHz	0 to 63.5, 1/2dB	50, 75	n/a	n/a	1	BNC	• ATE signal control • Instrumentation • Signal attenuation
VRR16	Relay-based	DC-1GHz	>45dB @ 100MHz	50, 75	3ea, 1x4	1x16	1	BNC	• General purpose switching • ATE applications • Cellular testing

VRMRN	Relay-based	DC-12GHz	>80dB @ 4GHz	50	1ea, 1x3	4ea, 1x6	4	N-Type	• Antenna routing • High power signals • Network analyzers
VRMRT	Relay-based	DC-12GHz	>80dB @ 4GHz	50	1ea, 1x3	4ea, 1x6	4	TNC	• Antenna routing • High power signals • Network analyzers
VRMR	Relay-based	DC-18GHz	>80dB @ 4GHz	50	1ea, 1x3	6ea, 1x6	3	SMA	• Microwave signals • Antenna routing • Network analyzers
VRMRST	Relay-based	DC-18GHz	>80dB @ 4GHz	50	1ea, 1x3	4ea, 1x6	4	SMA	• Antenna routing • Microwave signals • Network analyzers
VRMRTR	Relay-based	DC-18GHz	>80dB @ 4GHz	50	1ea, xfr	16ea, transfer	4	SMA	• Antenna routing • Microwave transfers • ATE applications
VRMR26	Relay-based	DC-26GHz	>60dB @ 18GHz	50	1ea, 1x3	6ea, 1x6	3	SMA	• Antenna routing • Microwave signals • Communication signals
VRMR40	Relay-based	DC-40GHz	>60dB @ 18GHz	50	1ea, 1x3	6ea, 1x6	3	K-Type	• Antenna routing • Microwave signals • Communication signals
VSECL	Digital	>1.2Gbps	n/a	50	8x8	16x16	2 to 4	SMA	• High speed data • Digital video • Telemetry data
VSPECL	Digital	>1.2Gbps	n/a	50	8x8	16x16	2 to 4	SMA	• High speed data • Digital video • Telemetry data

System Configurations

- Multiple modules can be installed into a single mainframe to create an overall configuration. Some attention is required to make sure that the mainframe selected contains the power requirements needed by all the modules desired. An example system is a 6x6 blocking matrix with DC-18GHz bandwidth. This would require two modules (VRMR-61X6) and a six slot mainframe chassis (S600A). The factory configures the system including all required coaxial semi-flex interconnect cabling. A unique "system" model number is assigned at the factory to specify a unique "grouping" of modules and assemblies. This single model number eases ordering procedures for customers and is specific. Factory configured systems include a comprehensive Operating and Programming Manual and system testing at no additional charge. Also see our System Photo Gallery.

Additional Information

If you require additional information quickly, please fill out our simple request form.	To see some applications that our products are used for, please view our applications section.
For the latest, see the section on our new products, press releases and WEB site changes.	To view the variety of our products, see our System Photo Gallery.

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