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Series G2T Rack-Mounted Modular Switching

Modules covering DC to 67GHz
Configurations from 1x2, up to 64x64

Series G2 products is our continuously evolving line of modular products tha provides the system engineer with cost effective configuration and performance options in a field proven standard design. Any Series G2 module can be installed by simply sliding the module into the rear module bay of a Series G2 Mainframe.

Solid-state, relay-based, digital and fiber-optic products are offered to meet most any requirement. The list of module types keeps growing with new products including both MxN switching arrays and 1xN types. Non-blocking (Fan-OUT), combining (Fan-IN) and blocking (1:1) arrays are available. Popular L-Band and IF switching plus fully digital types as well including TTL, E1/T1, 422, ECL, PECL and LVDS.

What is the Series G2? How does it work?

The Series G2 is a comprehensive modular switching product design comprised of two system components. These two major system components are what's required to complete a high-performance modular switching system.

- Rack mount mainframe with hot-swap supplies and CPU
- Plug-in switching module(s)

G2T Mainframes with Touchscreen

Our rack-mount mainframes are available in four rack-mount sizes with 2RU, 3RU, 6RU and 8RU. Different sizes are offered to meet various sized switching and distribution demands from small to large. They provide control and power to any of our Series G2 plug-in modules. Modules install into the rear-facing module bay providing easy connection access for cable management.

Front installed redundant hot-swap power sections are available to meet the requirements of the various types of Series G2 modules. Supplies are self-monitoring with operational status reported to the C3 Controller. Single or redundant supplies install through hinged front panels for hot-swap replacement, perfect for critical requirements including independent AC power circuits.

Our two larger mainframes (6RU and 8RU) can be specified to include one or two (redundant) hot-swap C3 controllers, while the smaller 3RU (G2T6) and 2RU (G2T4) can only have one. These LXI compliant CPU's provide control for the modules as well as remote control interfacing to the user via the 10/100/1G Ethernet and multi-serial port. Firmware is field upgradeable via the integrated web browser. For secure applications, the C3 accepts a removable uSD memory card to store settings and port alias names.

G2 Plug-in Modules

The modules that plug-in to our Series G2T mainframes are designed to install at the rear of the units. This allows the signal I/O connectors to face the rear (inside of the rack) of the mainframe. This is best suited for most installations to simplify cable routing to and from the switching system. The Series G2 module series spans DC-50GHz to address many different applications including audio or video, high speed digital data, telemetry, IF & RF, L-Band, microwave and other types of installations. Each module occupies a certain number of module "slots" within a mainframe. Some modules occupy only one slot while others occupy up to 16 slots. Power and control for the module is supplied by the mainframe.

NOTE: *Plug-in Model C3 Controller is backwards compatible for most systems, but provides new features such as SNMP, SNTP, and IPv6. It does not include an integrated GPIB port. A C3-Lite is included in some newer systems (non-G2T type).*



G2T16
Example mixed system, 8RU
(shown with one C3 Controller)



G2T4 Mainframe
Four module slots, 2RU



G2T6 Mainframe
Six module slots, 3RU



G2T12 Mainframe
Twelve module slots, 6RU
(shown with **Option X** display)



G2T16 Mainframe
Sixteen module slots, 8RU
(shown with **Option X** display)





SNMP LXI IPv6

Updated
C3 Controller
- Plug-in CPU
- 10/100/1G Ethernet, Serial & Alarm Ports
- Integrated web browser
- Scheduler & relay life counters
- Realtime clock
- FLASH memory
- Removable microSD card (security)
- SNMP (v1/v2c/v3), SNTP, TCP/IP, IPv4, IPv6
- Look for the C3 logo

Custom systems or modules available.

Universal Switching Corporation
Global Signal Switching and Distribution Specialists

Series G2 Modules: Switching Matrix Arrays - MxN (sorted by frequency range)

	Series	Elements	Frequency Range	Isolation (dB) Typ	Impedance	Minimum Size	Maximum Size	Slots	Conn Type
New	G2S02A	Solid-state	DC-200kHz	>80dB @ 20kHz	100 or 1M	16in, 64out	64in, 64out	4	HD-Dsub
	G2R10	Relay	DC-10MHz (typ)	>45dB @ 10MHz	100 ohm balanced	4in, 4out, 2-wire	16in, 16 out, 2wire	1	D-Sub
	G2S11	Solid-state	T1 & E1 rates	n/a	100 ohm balanced	8in, 8out	16in, 16out	3	RJ45
	G2D62B	Digital	DC-50Mbps	n/a	100 ohm (422)	8in, 8out	64in, 64out	1-8	Triax (BJ77)
	G2D64B	Digital	DC-50Mbps	n/a	100 ohm (422)	32in, 32 out	64in, 64out	1 or 2	D-Sub
	G2D71	Digital	>100Mbps	LVDS in, ECL out	50 ohm (differential)	8in, 8out	64in, 64out	2-8	SMB
	G2D72	Digital	>100Mbps	LVDS in, LVDS out	50 ohm (differential)	8in, 8out	64in, 64out	2-8	SMB
	G2S32H	Solid-state	DC-75MHz	>60dB @ 10MHz	50 or 75 ohm	8in, 8out	64in, 64out	1-8	BNC
	G2S32	Solid-state	DC-125MHz	>40dB @ 125MHz	50 or 75 ohm	8in, 8out	64in, 64out	1-8	BNC
	G2S33	Solid-state	DC-160MHz	>40dB @ 125MHz	50 or 75 ohm	8in, 8out	64in, 64out	1-8	BNC
	G2S44	Solid-state	20-250MHz	>60dB @ 70MHz	50 or 75 ohm	8in, 8out	48in, 48out	4-6	BNC
	G2S47	Solid-state	20-250MHz	>60dB @ 70MHz	50 or 75 ohm	8in+EX, 8out+EX	48in+EX, 48out+EX	4-6	BNC
	G2S48	Solid-state	20-250MHz	>60dB @ 70MHz	50 or 75 ohm	8in, 8out+EX	48in, 48out+EX	4-6	BNC
	G2S54	Solid-state	20-250MHz	>60dB @ 70MHz	50 or 75 ohm (combine)	8in, 8out	48in, 48out	4-6	BNC
	G2S57	Solid-state	20-250MHz	>60dB @ 70MHz	50 or 75 ohm (combine)	8in+EX, 8out+EX	48in+EX, 48out+EX	4-6	BNC
	G2S58	Solid-state	20-250MHz	>60dB @ 70MHz	50 or 75 ohm (combine)	8in, 8out+EX	48in, 48out+EX	4-6	BNC
	G2D70A	Digital ECL	>600Mbps	n/a	50 ohm (differential)	8in, 8out	64in, 64out	2-16	SMA or SMB
	G2S42	Solid-state	20-1000MHz	>50dB @ 1000MHz	50 ohm	8in, 8out	12in, 16out	4	BNC or SMA
	G2S75A	Solid-state	800-2400MHz	>50dB @ 2400MHz	50 ohm	8in, 8out	16in, 16out	4	SMA or N
New	G2S78A	Solid-state	20-3000MHz	>50dB @ 2400MHz	50 ohm	8in, 4out	16in, 16out	2-6	BNC, SMA or N
New	G2R19A	Relay	DC-18GHz	>80dB @ 18GHz	50 ohm	4in, 2out	12in, 12out	4-6	SMA or N

NOTE: See data sheet for full model number, specifications and suffix definitions.

Series G2 Modules: 1xN Type Arrays (sorted by frequency range)

Series	Elements	Frequency Range	Isolation (dB) Typ	Impedance	Minimum Size	Maximum Size	Slots	Conn Type
G2S08	Solid-state	DC-400Hz	Power Relay	AC or DC switch	1ea 1x1	1ea 1x8	3	Terminal Screw
G2R04	Relay	DC-10MHz (typ)	>50dB @ 10MHz	100 ohm balanced	1ea 1x4, 2-wire	1ea 1x4, 8 wire	1	D-Sub
G2R06	Relay	DC-10MHz	>60dB @ 10MHz	General purpose	8ea 1x1 (DPDT)	4ea 1x16 (DP16T)	1	D-Sub
G2R16	Relay	DC-1.3GHz	>55dB @ 1GHz	50 or 75 ohm	6ea 1x2	1ea 1x16 w/exp	1	BNC or SMA
G2R16T	Relay	DC-1.3GHz	>55dB @ 1GHz	50 or 75 ohm (self term)	6ea 1x2	1ea 1x16 w/exp	1	BNC or SMA
G2R15	Relay	DC-3GHz	>60dB @ 1GHz	50 or 75 ohm	6ea 1x2	1ea 1x16 w/exp	1	SMA
G2R15T	Relay	DC-3GHz	>60dB @ 1GHz	50 or 75 ohm (self term)	6ea 1x2	1ea 1x16 w/exp	1	SMA
G2R13	Relay	DC-6GHz	>55dB @ 3GHz	50 ohm	6ea 1x2	2ea 1x8	1	SMA
G2R20	Relay	DC-12GHz	>80dB @ 4GHz	50 ohm	1ea 1x2	6ea 1x2, 2ea 1x6	4	N-Type
G2R12	Relay	DC-12GHz	>80dB @ 4 GHz	50 ohm	1 ea 1x3	5ea 1x6	4	N-Type
G2R14	Relay	DC-18GHz	>60dB @ 18GHz	50 ohm (self terminating)	1ea 1x3	6ea 1x6	3	SMA
G2R17	Relay	DC-18GHz	>60dB @ 18GHz	50 ohm	1ea transfer	8ea transfer	2	SMA
G2R18	Relay	DC-18GHz	>60dB @ 18GHz	50 ohm	1ea 1x6	7ea 1x6	3	SMA
G2R21	Relay	DC-18GHz	>60dB @ 18GHz	50 ohm	1ea 1x2	8ea,1x2 & transfer	2	SMA
G2R22	Relay	DC-18GHz	>60dB @ 18GHz	50 ohm	1ea 1x6	10ea 1x6	2	SMA
G2R27	Relay	DC-18GHz	>60dB @ 18GHz	50 ohm (self terminating)	1ea 1x8	4ea 1x10	5	SMA
G2R28	Relay	DC-18GHz	>60dB @ 18GHz	50 ohm	1ea 1x8	7ea 1x10	3	SMA
G2R25	Relay	DC-26.5GHz	>55dB @ 26GHz	50 ohm	4ea 1x2	16ea 1x2	2	SMA
G2R40	Relay	DC-40GHz	>50dB @ 40GHz	50 ohm	1ea 1x3	7ea 1x6	3	K-Type
New G2R50	Relay	DC-50GHz	>50dB@ 50GHz	50 ohm	1ea 1x4	7ea 1x6	3	2.4mm
New G2R67	Relay	DC-50GHz	>50dB@ 50GHz	50 ohm	1ea 1x4	7ea 1x6	3	2.4mm

NOTE: See data sheet for full model number, specifications and suffix definitions.

Reliability Resiliency

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