Electromechanical

CB-Series | Crossbar

Eggturge



reatures			
Switch Configuration	2x2 up to 12x12		
	Terminated & Non-Terminated		
Configuration	Non-Blocking Crossbar		
Operating Frequency	DC-18 GHz or DC-26.5 GHz		
Manual Control	LCD with Keypad (1RU)		
	Touch Screen LCD (2RU-4RU)		
Remote Control	ENET: Ethernet, Built-In Website, RS-232 and USB port.		
	GPIB: IEEE-488, RS-232 and USB port.		

50-Ohm

Application

For more complex test setups and signal switching, the CB-series crossbar matrix is an excellent choice. It allows testing of multiple UUT/DUT (units/devices under test) with many input/output signals or high speed communication buses without having to connect and disconnect them from the setup.

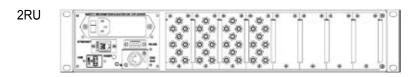
A crossbar system can route any input signal to any output port such that the path between the I/O ports is unique at any given time.

Software Features:

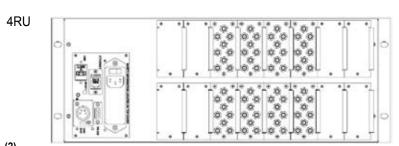
- Built-in firmware to add, remove and address switches for trouble free switch replacement
- Application configuration available through "configuration file" - transferred via HTTP, USB or COM ports.
- · Keeps track of the life of each switch
- Field upgradable firmware via boot loader (1)

Rear View Samples (2)

Impedance



3RU



(2) The exact port locations may be different

CAN Bus Specifications

Relay Type	Coaxial, Normally Open
I/O Connector Type	SMA Female or N Female
Switching Time	50 ms (incl. control delay)
Operating Life (min)	1,000,000 (cold)
MTBF	30,000-50,000 Hours
Operating Temperature	0 °C to +50 °C
Storage Temperature	-20 °C to +70 °C
Operating Humidity	10-80% non-condensing
Dimensions (max)	19" Wide rack mount 15.25" (1U-2U) & 18.5" (3U-4U) Depth (w/o handles) 1U to 4U Height (1.75" to 7.00")
Weight	Varies per part number

Manual Control	LCD/Keypad or Touch Screen LCD		
Remote Control Ethernet or GPIB Option			
ENET Option	Ethernet (TCP/IP), 10/100 BASE-T, built-in website, manual or DHCP IP address assignment		
RS-232	DB9-F, Baud Rate1200 -115200 bps		
USB Port	Operates as a virtual RS-232		
GPIB Option	GPIB (IEEE-488), RS-232 and USB		
Commands/Syntax	Dow-Key SCPI commands		
Fuse	Accessible/replaceable on the rear		
AC Power Supply	110-240 VAC, 50-60 Hz		
Cooling / Venting	Fans as required with 2U-4U models		

⁽¹⁾ Check Availability

RF Specifications

SEE APPENDIX C

SP10T NORMALLY OPEN SWITCHES

FOR SWITCH SCHEMATICS

DC-18 GHz, Non-Terminated, SMA or N			2x2 to 10x10	
Frequency [GHz]	VSWR	Isolation [dB]	Insertion Loss [dB]	CW Power [W]
DC-4	1.30	80	2.0	100
4-8	1.35 ⁽¹⁾	80	3.0	90
8-12	1.45	80	3.5	75
12-16	1.55	80	4.0	65
16-18	1.80	80	5.0	60

⁽¹⁾ VSWR 1.45:1 for N-type connectors.

SP12T NORMALLY OPEN SWITCHES

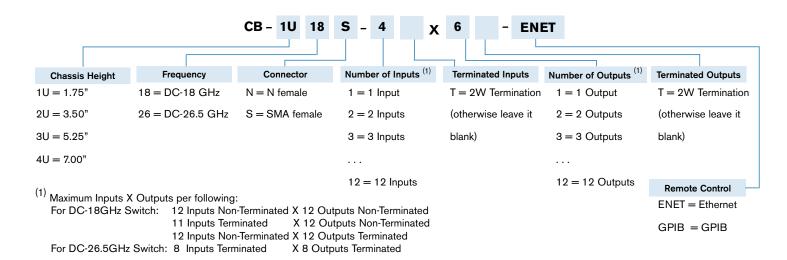
DC-18 GHz, Non-Terminated, SMA or N				11x11 to12x12
Frequency [GHz]	VSWR	Isolation [dB]	Insertion Loss [dB]	CW Power [W]
DC-4	1.30	80	2.0	100
4-8	1.45	80	3.5	90
8-12	1.55	80	4.0	75
12-16	1.80	80	4.5	65
16-18	2.00	80	5.5	60

SP10T AND/OR SP12T NORMALLY OPEN /FAILSAFE SWITCHES

DC-18 GHz, Terminated, SMA or N		or N 1	11Tx12 /12x11T /11Tx11T (MAX)	
Frequency [GHz]	VSWR	Isolation [dB]	Insertion Loss [dB]	CW Power [W]
DC-4	1.30	80	2.0	100
4-8	1.45	80	3.5	90
8-12	1.65	80	4.0	75
12-16	1.80	80	4.5	65
16-18	2.00	80	5.5	60

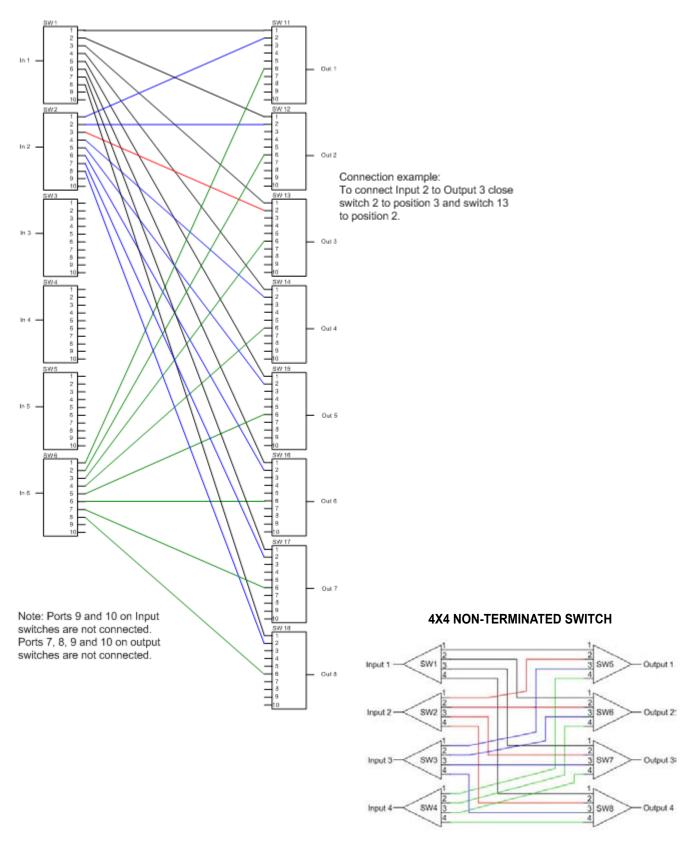
We reserve the right to alter, amend or replace any specifications at our sole discretion and without prior notice.

Part Number Selector



CB-SERIES: Example of Crossbar Switch Configurations

6X8 NON-TERMINATED SWITCH



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