

The VPX load test card serves to simulate loads on VPX systems. Both electrical and thermal conditions can be simulated.

The following load streams can be switched with the coding and tilt lever switches located on the front plate:

	<i>load current</i>	<i>Control options</i>
5 V	0 A ... 15 A	<i>in 1 A stages</i>
12 V	0 A ... 10 A	<i>in 2/3 A stages</i>
3.3 V	0 A ... 15 A	<i>in 1 A stages</i>
+12 V_AUX	2/3 A	<i>on/off</i>
-12 V_AUX	2/3 A	<i>on/off</i>
+3.3 V_AUX	1 A	<i>on/off</i>

5 V must always be connected as control voltage.

Voltages are tapped at the VPX bus via the P0 and P1 plug.

Excess temperature protection

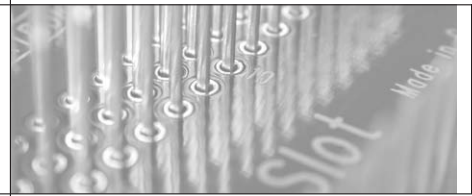
The load test card switches itself off at a temperature on the topside of the load test card or in the rack of 120 °C +5 K. Once cooled, it turns itself on again.

Please note:

The load test card becomes hot during operation.

The incoming voltage levels for the voltages 5 V, 12 V, 3.3 V, +12 V-AUX, -12 V-AUX and +3.3V-AUX can be measured at measuring points close to the plugs P0 and P1. These measuring points are run via the plug X1 (on the front plate).

VPX Loadboard 3 U



Furthermore, 4 PTC resistors (PT100) are attached to the load test card: On the front at bottom and top and on the back at the bottom and top. It is possible to measure the temperature on the load test card or in the rack via these. These PTC resistor connections are also run via the plug X1.

Pin Assignments P0 VPX

Pin	ROW A	ROW B	ROW C	ROW D	ROW E	ROW F	ROW G	ROW H	ROW I
1	VS2	VS2	VS2	VS2	NC	VS1	VS1	VS1	VS1
2	VS2	VS2	VS2	VS2	NC	VS1	VS1	VS1	VS1
3	VS3	VS3	VS3	VS3	NC	VS3	VS3	VS3	VS3
4	GND	NC	NC	GND	-12 V_AUX	GND	NC	NC	GND
5	GND	NC	NC	GND	3.3 V_AUX	GND	NC	NC	GND
6	GND	NC	NC	GND	+12 V_AUX	GND	NC	NC	GND
7	NC	NC	NC	GND	NC	NC	GND	GND	NC
8	GND	GND	NC	NC	GND	GND	NC	NC	GND

VS1 = 12 V, VS2 = 3.3 V, VS3 = 5 V

Pin Assignments

Pin	P1 VPX									X1
	ROW A	ROW B	ROW C	ROW D	ROW E	ROW F	ROW G	ROW H	ROW I	
1	NC	NC	GND	GND	NC	NC	GND	GND	NC	5V-Measuring point
2	GND	GND	NC	NC	GND	GND	NC	NC	GND	-12V_AUX-Measuring point
3	NC	NC	GND	GND	NC	NC	GND	GND	NC	3.3V-Measuring point
4	GND	GND	NC	NC	GND	GND	NC	NC	GND	3.3V_AUX-Measuring point
5	NC	NC	GND	GND	NC	NC	GND	GND	NC	12V-Measuring point
6	GND	GND	NC	NC	GND	GND	NC	NC	GND	+12V_AUX-Measuring point
7	NC	NC	GND	GND	NC	NC	GND	GND	NC	PTC1 Pin 1
8	GND	GND	NC	NC	GND	GND	NC	NC	GND	PTC3 Pin 1
9	NC	NC	GND	GND	NC	NC	GND	GND	NC	PTC1 Pin 2
10	GND	GND	NC	NC	GND	GND	NC	NC	GND	PTC3 Pin 2
11	NC	NC	GND	GND	NC	NC	GND	GND	NC	PTC2 Pin 1
12	GND	GND	NC	NC	GND	GND	NC	NC	GND	PTC4 Pin 1
13	NC	NC	GND	GND	NC	NC	GND	GND	NC	PTC2 Pin 2
14	GND	GND	NC	NC	GND	GND	NC	NC	GND	PTC4 Pin 2
15	NC	NC	GND	GND	NC	NC	GND	GND	NC	GND-Measuring point (connector P0)
16	GND	GND	NC	NC	GND	GND	NC	NC	GND	GND-Measuring point (connector P1)

NC = not connected