



The VME64x load test card serves to simulate loads on VME64x 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:

|            | load current | Control options |
|------------|--------------|-----------------|
| 5 V        | 0 A ... 6 A  | in 0.4 A stages |
| 3.3 V      | 0 A ... 15 A | in 1 A stages   |
| +12 V      |              | 1 A/off/2 A     |
| -12 V      |              | 1 A/off/2 A     |
| +5 V STDBY |              | 1 A/off/2 A     |

5 V must always be connected as control voltage.

Voltages are tapped at the VME64x bus via the J1 plug.

#### Excess temperature protection

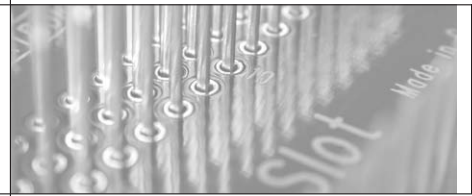
The load test card switches itself off at a temperature on the topside of the load test card or in the rack of 120 °C +5 K. Once cooled, it turns itself on again.

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 and +5 V STDBY can be measured at measuring points close to the plug J1. These measuring points are run via the plug X1 (on the front plate).

# VME64x 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

| Pin | J1 VME64x |       |            |       |        | X1  |
|-----|-----------|-------|------------|-------|--------|---|
|     | ROW Z     | ROW A | ROW B      | ROW C | ROW D  |   |
| 1   | NC        | NC    | NC         | NC    | +5 V   | +5V-Measuring point                       |
| 2   | GND       | NC    | NC         | NC    | GND    | +5 V STDBY-Measuring point                |
| 3   | NC        | NC    | NC         | NC    | NC     | +3.3V-Measuring point                     |
| 4   | GND       | NC    | NC         | NC    | NC     | NC  |
| 5   | NC        | NC    | NC         | NC    | NC     | +12V-Measuring point                      |
| 6   | GND       | NC    | NC         | NC    | NC     | -12V-Measuring point                      |
| 7   | NC        | NC    | NC         | NC    | NC     | PTC1 Pin 1                                |
| 8   | GND       | NC    | NC         | NC    | NC     | PTC3 Pin 1                                |
| 9   | NC        | GND   | NC         | GND   | NC     | PTC1 Pin 2                                |
| 10  | GND       | NC    | NC         | NC    | NC     | PTC3 Pin 2                                |
| 11  | NC        | GND   | NC         | NC    | NC     | PTC2 Pin 1                                |
| 12  | GND       | NC    | NC         | NC    | +3.3 V | PTC4 Pin 1                                |
| 13  | NC        | NC    | NC         | NC    | NC     | PTC2 Pin 2                                |
| 14  | GND       | NC    | NC         | NC    | +3.3 V | PTC4 Pin 2                                |
| 15  | NC        | GND   | NC         | NC    | NC     | GND-Measuring point (connector J1 top)    |
| 16  | GND       | NC    | NC         | NC    | +3.3 V | GND-Measuring point (connector J1 bottom) |
| 17  | NC        | GND   | NC         | NC    | NC     |   |
| 18  | GND       | NC    | NC         | NC    | +3.3 V |   |
| 19  | NC        | GND   | NC         | NC    | NC     |   |
| 20  | GND       | NC    | GND        | NC    | +3.3 V |   |
| 21  | NC        | NC    | NC         | NC    | NC     |   |
| 22  | GND       | NC    | NC         | NC    | +3.3 V |   |
| 23  | NC        | NC    | GND        | NC    | NC     |   |
| 24  | GND       | NC    | NC         | NC    | +3.3 V |   |
| 25  | NC        | NC    | NC         | NC    | NC     |   |
| 26  | GND       | NC    | NC         | NC    | +3.3 V |   |
| 27  | NC        | NC    | NC         | NC    | NC     |   |
| 28  | GND       | NC    | NC         | NC    | +3.3 V |   |
| 29  | NC        | NC    | NC         | NC    | NC     |   |
| 30  | GND       | NC    | NC         | NC    | +3.3 V |   |
| 31  | NC        | -12 V | +5 V STDBY | +12 V | GND    |   |
| 32  | GND       | +5 V  | +5 V       | +5 V  | +5 V   |   |

NC = not connected

## Order number

LXH0000561

VME64x Loadboard 3 U  
HE2665A Rev. 01