

VPX LOAD BOARD - 6U



FEATURES

- Load board for VPX systems, meets ANSI/VITA mechanical and electrical connection standards
- Verifies chassis can meet power requirement and specifications for VPX
- Aids in locating hot spots in the chassis
- Go-No-Go indicators for 12V, 3.3V, 5V, +12V_Aux, -12V_Aux & 3.3V_Aux.
- Two test point outputs and microcontroller- based rotary switch selector for voltage settings, markings for SIG and GND
- Power reset button (to minimum level), SYSRESET signal on the two test point outputs
- Power level LED (1, 2, and 3) and push button (Step UP) indications
- RoHS compliant
- 3U and conduction-cooled versions are also available

DESCRIPTION

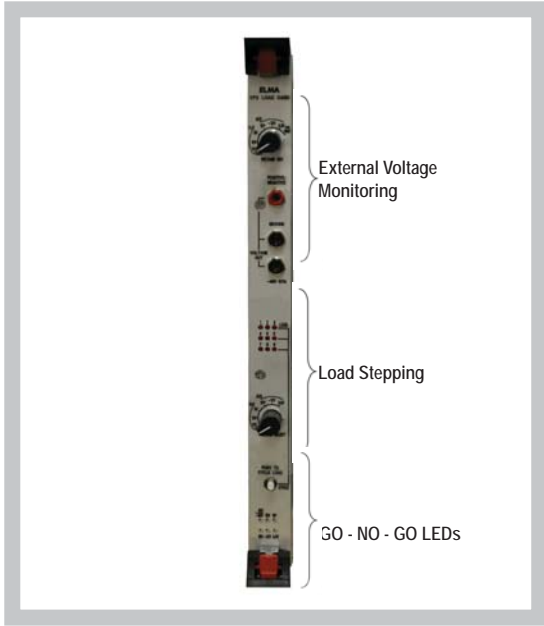
The Elma Bustronic VPX load board is designed to be compliant with ANSI/VITA mechanical and electrical connection standards. Developed to enhance testing of VME systems, the load board aids the system designer in assuring adequate chassis cooling and verifying that the VPX chassis is capable of meeting the power requirements of the system (or VITA specs). The load board functions to test a system's cooling capabilities by first applying the load to the power supply for verification and creating the necessary heat to confirm chassis cooling. By locating hot spots in the chassis, a system designer can verify where to optimally redirect the airflow to prevent overheating. The load board increases productivity by quickly and accurately characterizing systems at low cost.

The 6U VPX load card features a microcontroller-based stepped load control. The rotary switch selects the voltage setting while pushing the ON switch will cycle between different power levels shown on the LED display. The set load power levels are saved in EEPROM. The design is RoHS compliant and has an operating temperature range of 0 degrees C to 70 degrees C.

ORDER INFORMATION

Part Name	Description	Part Number
VPX Load Board	6U x 160mm	1940000355-0000R

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VOLTAGE SETTINGS TABLE

"VOLTAGE OUT" Rotary Switch Position	VPX Voltage Designator	Voltage output on test jacks "POSITIVE", "GROUND" and "48V GROUND"
12V / 48V (VsX)	Vs1	12V / 48V
12V(VsX)	Vs2	12V / 48V Ground
5V(VsX)	Vs3	5V
12V(AUX)	+12V_Aux	12V
-12V(AUX)	-12V_Aux	-12V
3.3V(AUX)	3.3V_Aux	3.3V
SYSRESET	SYSRESET	2.94V

LED LOAD INDICATION/POWER LEVEL TABLE

'VOLTAGE SELECT' Rotary Switch Position	VPX Voltage Designator	"LOAD" LED - ON Power Level Indication							Total power dissipated
		LED 1	LED 2	LED 3	LED 4	LED 5	LED 6	LED 7	
12V/48V (VsX)	Vs1	10W/10W	10W/10W	10W/10W	10W/10W	10W/10W	N/A/10W	N/A/10W	50W/70W
12V/48V (VsX)	Vs2	10W/N/A	10W/N/A	10W/N/A	10W/N/A	10W/N/A	NA	NA	50W/NA
5V (VsX)	Vs3	10W	10W	10W	10W	N/A	N/A	N/A	40W
12V (AUX)	12V_Aux	2W	2W	N/A	N/A	N/A	N/A	N/A	4W
-12 V(AUX)	-12V_Aux	2W	2W	N/A	N/A	N/A	N/A	N/A	4W
3.3V (AUX)	3.3V_Aux	1W	1W	N/A	N/A	N/A	N/A	N/A	2W