

HP E1881A Rugged VXI

Approved and Preliminary
Specifications – Jan 99

Overview

1

Shock and Vibration –
tested in 100 G of Shock
And Random Vibration

2

Power – up to 880W for

3

Cooling – 10 tons for air
flow and filtering

4

E1401A quiet like

5

Form factor – rack
mountable in 1U width

Measurement Systems Division
Hewlett-Packard

HP E1881A Specifications

The HP E1881A is a new 11 slot rugged version of the HP VXI family of products used in various COTS applications.

EMI, RFI, and Safety

Same as the E1401A VXI mainframe:
CISPR 11 1990/EN 55011
(1991): Group 1, Class A

IEC 61000-4-2: 1991/EN 50082-1
(1992): 4kVCD, 8kVAD

IEC 61000-4-3 1984/EN 50082-1
(1992): 3V/m

IEC 61000-4-4: 1988/EN 50082-1
(1992): 1KV Power Line
0.5Kv Signal line

(applies to signal line >3 meters
Safety: UL 1244 or UL 3111-1
CSA 556B or 231 or 1010.1
IEC 348 or 61010-1

Shock : The units was tested for a impulse shock of 100G's in three axis directions, the unit maintained its operation. The units passes 15 G's drop test, half sine pulse of 40ms in 6 directions. It also met 40 G for 6 - 9 msec

Vibration :

The unit met exploratory 4 to 20 Hz at 0.01 inches; 5 min. 16 to 20 Hz at 0.02 in; 2 hours At 20 Hz; No resonance allowed . Also 5 min. 4 to 50 Hz in 1Hz steps, varying amplitude versus frequency levels; 2 hours at 50 Hz or at

resonant frequency also 4 to 33 Hz in 1 Hz steps, 2 hours at 33 Hz or at resonant frequency

Altitude : Unit operates in a 15,000 and 2,000 ft / min rate of change 40,000 ft / 8 hours environment.

Temperature : 4 to 40 C non-operating and 0 to 50 C operating includes -62 C to 71 C non-operating

Size : 16.75" width
22.695" depth
15.718" high

