



## Mini PCI POST 80 + Smart Vu



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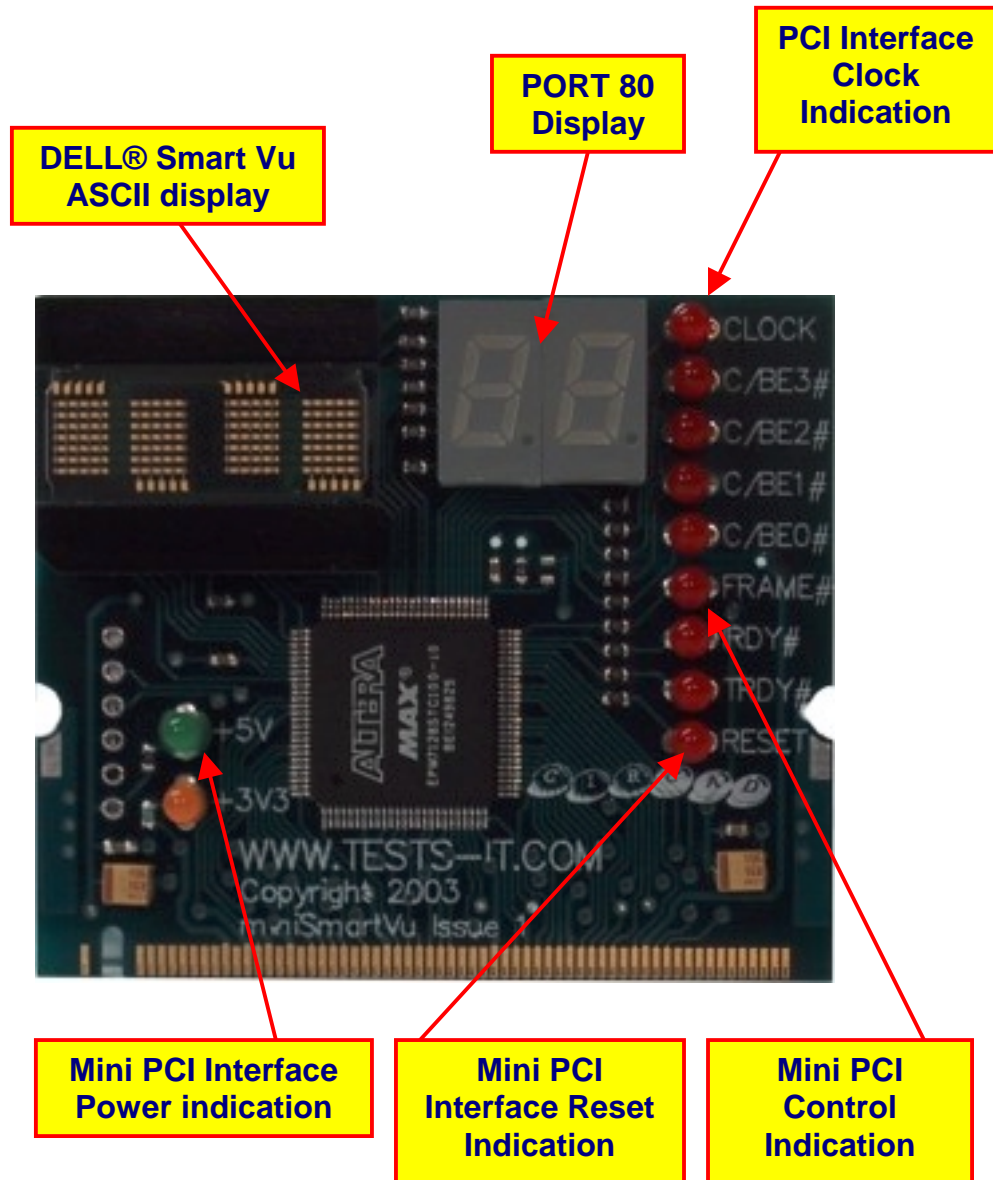
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## Mini PCI POST + Smart Vu Features

The Circad Mini PCI POST card installs into the Laptop Mini PCI interface, usually used for the Modem adapter.



## What are POST and EDVIEW Codes?

POST (Power On Self Test) is a part of the system BIOS (Basic Input Output System) program contained within the ROM or Flash Memory.

The POST sequence sets up and tests system components, and reports progress writing a value to an I/O Port. IBM® compatible systems write to Port 80h, and Compaq® use Port 84h.

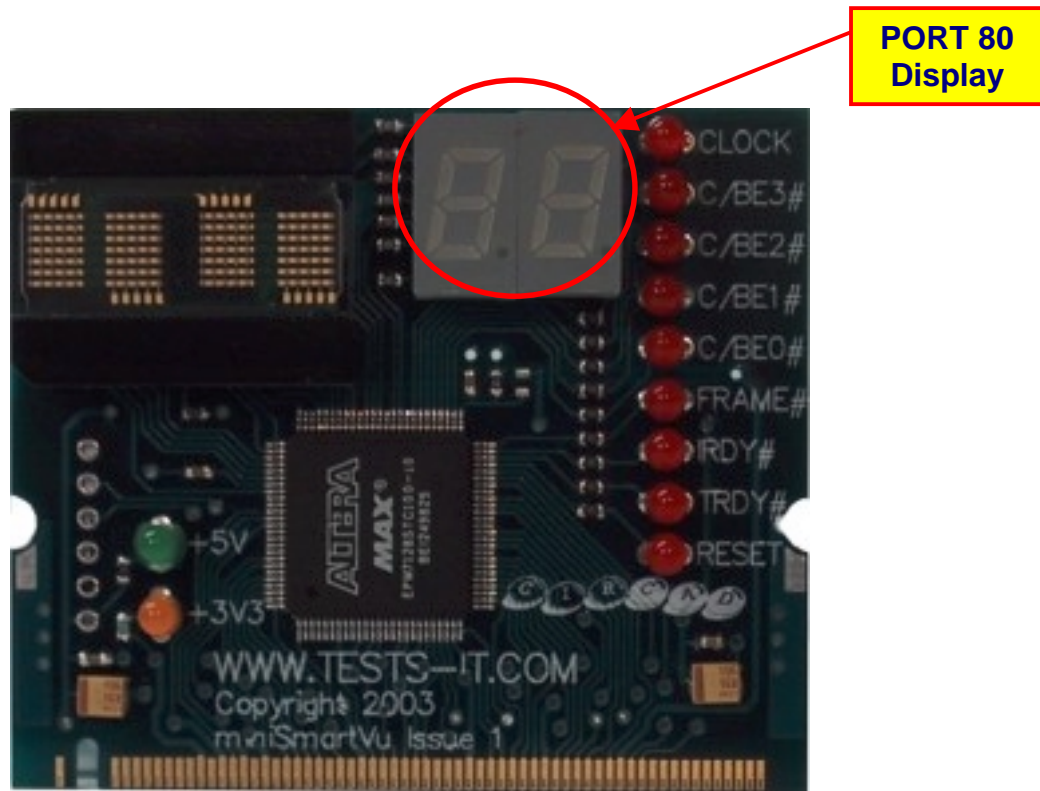
Each BIOS manufacturer has unique POST Code sequences, please see appendix for some popular BIOS POST Code lists.

PORT 80h is an 8 Bit register within the DMA controller used for the page address for DMA channel 0. The PCI POST + Smart Vu catches writes to this I/O Port and displays the value on two seven segment displays.

EDVIEW is specific to DELL®, a 4 character display with descriptive failure message. EDVIEW codes are also more granular than basic Post 80 Post Codes.

## PORT 80 Codes

The Port 80h display indicates the current POST CODE. If the system has hung with a constant value on the PORT 80 LED's then the board under test will have a failure condition.



7 Segment Display Hexadecimal representations.

	0		4		8		C
	1		5		9		D
	2		6		A		E
	3		7		B		F

## ASCII Display Modes

The ASCII Display on the mini PCI Smart Vu Diagnostic card has two modes of operation:

Non Dell® Operating mode:

On Non DELL® systems this display will indicate the last accessed I/O address. This is useful diagnostic information as it indicates what device the CPU accessed before the target board locked up

Dell® Edview or Smart Vu is an extension of the Phoenix BIOS POST codes. Edview messages give more detailed diagnostic information, and include extended and more specific target board tests than standard POST.

**ASCII Last I/O and DELL®  
Smart Vu Display**

