

# eSPI POST Code Card

## Features

### BIOS debug code display

- Port 80 display
- Port 81 display

### Serial output

- Port 80/81 code
- Port 82/83 code
- Byte display format
- Word display format

### USB powered

To display power down POST code sequence, while power rails on target are switched off.

### Board dimensions

89 mm x 58 mm  
(3 1/2 x 2 1/4 inch)

### Operating temperature

0 °C – 70 °C  
(32F – 158F)

### Customized solutions

Ask us!

### Enhanced eSPI POST Code Analysis

The Eltan POST Code Card for eSPI is used to display "Port 80h" and "Port 81h" (UEFI-) BIOS POST codes on a 4x 7-segment display.

To enable logging of these POST codes, it can send the HEX codes over a serial connection to a Host PC, which allows terminal software to record the complete Port 80/81/82/83 sequence.

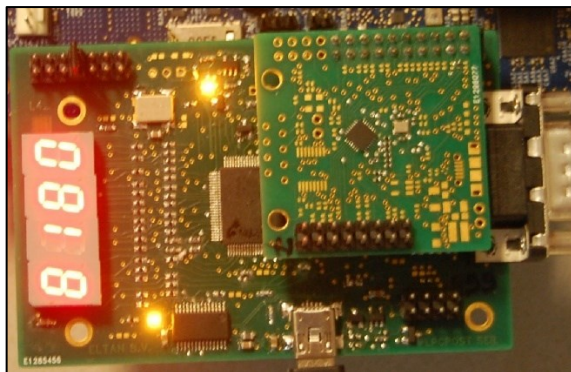
The eSPI interface signals are monitored, which allows you to distinguish Byte and Word access. This is valuable POST code information.

### Mechanical Interface:

The 2x10 way socket fits onto the standard "eSPI header" (0.1"pitch) located on the target main board.

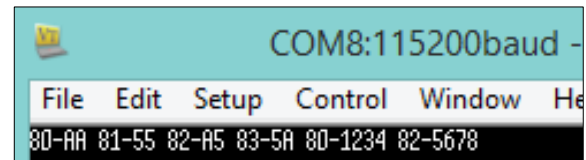
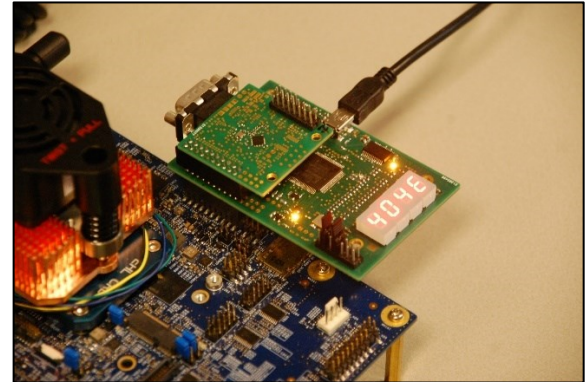
### Applications

- BIOS firmware debugging x86 PC board
- PC computer repair tool
- Functional x86 board test-fixture tool



### The cards

- eSPI POST Card
- eSPI Slave (not included)



*4 times a Byte to 80, 81, 82 and 83, and 2 times a Word to port 80 and 82 BIOS POST code example*

### eSPI Master and Slave

The Eltan eSPI POST code card monitors the eSPI signals between the eSPI Master (the chipset) and an eSPI slave (BMC chip, eSPI embedded controller, or Super IO chip) on the main board. In case the main board does not have such eSPI slave chip then the eSPI POST Card with eSPI Slave is required.

eSPI Clock: up to 50 MHz

eSPI data width: Single I/O and Quad I/O  
(GET- & SET\_CONFIGURATION eSPI Spec. Commands)

### Example codes

- Phoenix® BIOS POST code,
- Intel® FSP debug code
- AMD firmware initialization code
- UEFI debug code
- Coreboot™ debug code
- Other Open Source firmware debug code

Please contact us about your requirements!

We can advise if the eSPI POST Code Card can be used for your product and we can customize the card if needed.

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