

## D1 through D16 LEDs

The UP2 Education Board contains 16 LEDs that are pulled-up with a 330- $\Omega$  resistor. An LED is illuminated when a logic 0 is applied to the female header associated with the LED. LEDs D1 through D8 are connected in the same sequence to the female headers (i.e., D1 is connected to position 1, and D2 is connected to position 2, etc.). LEDs D9 through D16 are connected in the same sequence to the female headers (i.e., D9 is connected to position 1, and D10 is connected to position 2, etc.). See Figure 3.

**Figure 3. LED Positions**

Female Header Position	LEDs	Female Header Position	LEDs
1 ○	D1 ○	1 ○	D9 ○
2 ○	D2 ○	2 ○	D10 ○
3 ○	D3 ○	3 ○	D11 ○
4 ○	D4 ○	4 ○	D12 ○
5 ○	D5 ○	5 ○	D13 ○
6 ○	D6 ○	6 ○	D14 ○
7 ○	D7 ○	7 ○	D15 ○
8 ○	D8 ○	8 ○	D16 ○

## MAX\_DIGIT Display

MAX\_DIGIT is a dual-digit, seven-segment display connected directly to the EPM7128S device. Each LED segment of the display can be illuminated by driving the connected EPM7128S device I/O pin with a logic 0. Figure 4 shows the name of each segment.

**Figure 4. Display Segment Name**

