

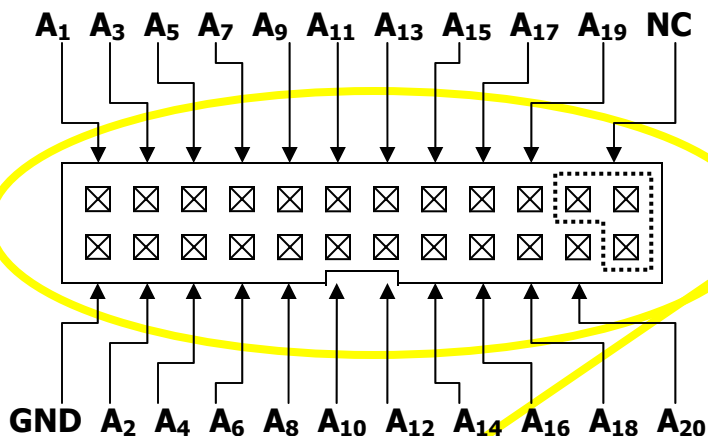
The output frequency is given by the following formula:

$$f_{out} = \frac{SEED}{2^{20}} \cdot f_{in} = \frac{\sum A_i \cdot 2^{i-1}}{2^{20}} \cdot f_{in}$$

where  $A_i = 0$  (LO, VEE, open) or  $1$  (HI, GND) for  $i = 1, 2, \dots, 20$ ;  
valid for  $1 \leq SEED \leq 2^{19}$ .

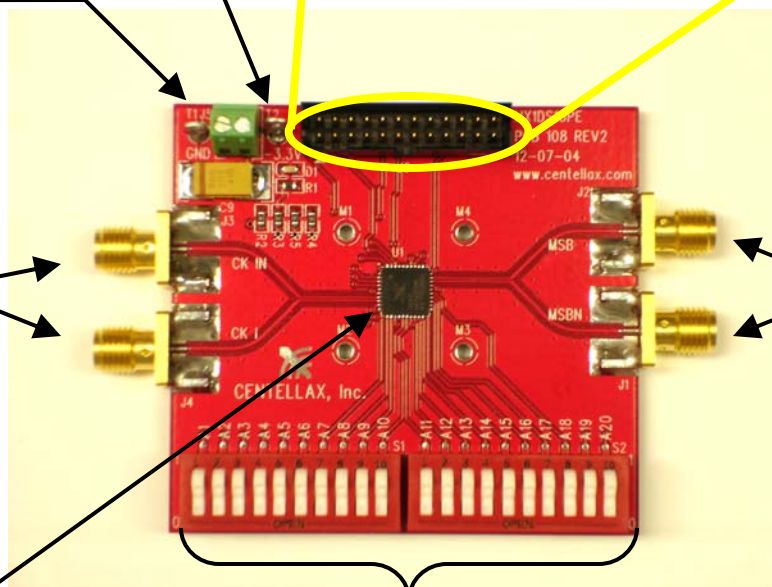
**Note:**

When using the parallel programming interface control, the on-board switches must be kept in the 'open' position. 'Open' corresponds to logic 'LO' or 0. Refer to the datasheet for logic level specs.



VEE = -3.3 V  
GND = 0 V  
I<sub>ee</sub> ~ 470 mA  
(clip-on or screw-down)

Differential Inputs:  
50 Ohms,  
SMA connectors



Differential Outputs:  
R.L. ~ -10 dB  
SMA connectors

Centellax  
MX1DS10P  
6 x 6 mm<sup>2</sup> QFN

On-board switches to control the *SEED* from 1 to 2<sup>19</sup>.

**Note:**  
Terminate unused output in single-ended applications.

**Dimensions**

With connectors: 3.105" x 2.160" (78.86 mm x 54.86 mm)  
Without connectors: 2.351" x 2.160" (59.73 mm x 54.86 mm)