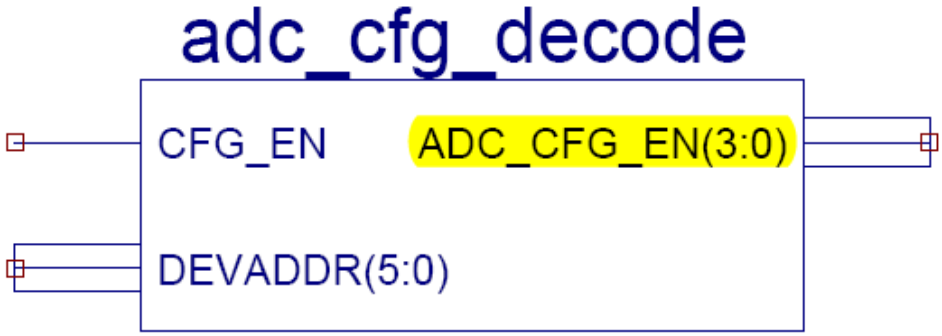
21--- DESCRIPTION : DECODES THE CONFIGURATION DEVICE ADDRESS FROM THE SERIAL
22--- CONFIGURATION FRONT END. ENABLES THE INDIVIDUAL ADC INTERFACE MODULES FOR
23--- RECEIVE SERIAL CONFIGURATION DATA.
24----------
25--- IMPLEMENTATION NOTES :
26--- ADC BLOCKS USE:-
27--- SERIAL FUNCT CODE ""000""
28--- SERIAL MSG LENGTH IS 6.
29--- SERIAL DEVADDR RANGE 0 => 3.




```
CFG_EN      : in  std_logic
DEVADDR     : in  std_logic_vector(5 downto 0)

ADC_CFG_EN : out std_logic_vector(3 downto 0)
```

```
    ADC_CFG_EN <= "0000" when (CFG_EN = '0')
            else
                  "0001" when (DEVADDR = "000000")
            else
                  "0010" when (DEVADDR = "000001")
            else
                  "0100" when (DEVADDR = "000010")
            else
                  "1000" when (DEVADDR = "000011")
            else
                  "0000";
```