

# CPU09MON - GAL Selection Table.

| Type               | I/O | G1        | G2        | G3        | Programmer |
|--------------------|-----|-----------|-----------|-----------|------------|
| GAL16V8A-15LP      | 2   | MON_1     | MON_2     | MON_3     | 1, 2, 3, 4 |
| GAL16V8B-15LP      | 1   | MON_1     | MON_2     | MON_3     | 1, 2, 3, 4 |
| GAL16V8D-15LP      | 1   | MON_1     | MON_2     | MON_3     | 1, 2, 3, 4 |
| GAL16V8D-25LP      | 1   | MON_1     | MON_2     | MON_3     | 1, 2, 3, 4 |
| GAL22V10B-15LP     | 3   | x         | x         | x         | 1, 2, 3, 4 |
| GAL22V10D-15LP     | 3   | x         | x         | x         | 1, 2, 3, 4 |
| ATF16V8B-15PC      | 1   | ATF-MON_1 | ATF-MON_2 | ATF-MON_3 | 2, 3, 1, 4 |
| ATF16V8B-25PC      | 1   | ATF-MON_1 | ATF-MON_2 | ATF-MON_3 | 2, 3, 1, 4 |
| ATF16V8BQL-15PC    | 1   | ATF-MON_1 | ATF-MON_2 | ATF-MON_3 | 2, 3, 1, 4 |
| ATF22V10B-15PC     | 1   | x         | x         | x         | 2, 3, 1, 4 |
| ATF22V10C-15PC     | 5   | x         | x         | x         | 2, 3, 1, 4 |
| ATF22V10CQZ-20PC   | 5   | x         | x         | x         | 2, 3, 1, 4 |
| PALCE16V8-15PC     | 1   | MON_1     | MON_2     | MON_3     | 2, 3, 4    |
| PALCE16V8-25PC     | 1   | MON_1     | MON_2     | MON_3     | 2, 4, 3    |
| PALCE16V8H-15PC/4  | 4   | MON_1     | MON_2     | MON_3     | 2, 3, 4    |
| PALCE16V8H-25PC    | 4   | MON_1     | MON_2     | MON_3     | 2, 4, 3    |
| PALCE16V8Q-15PC/4  | 4   | MON_1     | MON_2     | MON_3     | 2, 3, 4    |
| PALCE22V10H-15PC/4 | 4   | x         | x         | x         | 2, 3, 4    |
| PALCE22V10H-25PC/4 | 4   | x         | x         | x         | 2          |
| PALCE22V10Q-25PC   | 4   | x         | x         | x         | 2          |

Tested

Any open field means not used/tested

First nr preferred

Also tested a mix ATF / GAL / PALCE and -15 / -25

|  |   |
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| <b>I/O:</b> 1 = I/O 50K pull up<br>2 = I/O No pull up<br>3 = I/O Active pull up<br>4 = 100K 50K No pull up<br>5 = I/O Pin keeper | <b>Programmer:</b><br>1 = Xgpro TL866II Plus, Sw 12.90 - Fw 04.2.132<br>2 = GALEP-4, Galep32 Version 1.20.4<br>3 = TOP2013, Sw Topall 8.92 - Fw 6.30<br>4 = TOP3002, Sw Topall 9.21 - Fw 6.93 |
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Remarks: I/O type 4 depending on device suffix /4 = 100K, /5 = 50K, otherwise NO pull-up  
I/O type 2,4 and 5 may need a pull-up on floating input pins.  
Some ATF16V8B had errors on the TL866II Plus but not on the GALEP-4.  
Do select the full name in the programmer A, B, C, D, H or Q version !  
Otherwise you will get programming errors !  
TOP2013, TOP3000 also select the correct speed -10, -15 or -25 !