



#### Basic Mode

- P18: Shared I2C SCL (pull-up on IOC)
- P19: Shared I2C SDA (pull-up on IOC)
- P20: Free or Shared INT
- P21: Free
- P30: Shared Rx
- P31: Shared Tx
- 16x GPIO free
- Total 22 I/O lines (up to 18 free)

#### Extended Mode

- P18: Free
- P19: Free
- P20: Free or Shared INT
- P21: Free
- P29: Shared I2C SDA (pull-up on 96-PRO, remove from IOC)
- P28: Shared I2C SCL (pull-up on IOC)
- P30: Shared Rx
- P31: Shared Tx
- 16x GPIO free
- Total 24 I/O (up to 20 free)

6. I2C require a 4.7K pull-up on resistor on the SDA and SCL.  
 -Note the location of the pull-ups after the jumpers  
 -In extended mode the uOLED-96-PRO has one 4.7K resistor already installed  
 -In extended mode remove the 4.7K resistor on the IOC for the SDA line
5. For extended mode make the following changes:  
 -Remove the two solder bridges for P18/SCL and P19/SDA  
 -Solder a tiny wires from SCL of uOLED-96-PRO EEPROM to correct jumper SCL pad  
 -Solder a tiny wires from SDA of uOLED-96-PRO EEPROM to correct jumper SDA pad  
 -remove the 4.7K resistor mentioned in note 6
4. Jumper on P20 not installed at factory, P20 may be the INT of PCA9555/PCA9555.
3. Jumper on P19 installed at factory, P19 is I2C SDA.
2. Jumper on P18 installed at factory, P18 is I2C SCL.
1. Jumpers are used for defining basic/extended mode operation