|  |  |  |
| --- | --- | --- |
| **OV2640 CAMERA** | **ESP32-s2** | **Variable name in code** |
| D0 | GPIO 1 | Y2\_GPIO\_NUM |
| D1 | GPIO 2 | Y3\_GPIO\_NUM |
| D2 | GPIO 3 | Y4\_GPIO\_NUM |
| D3 | GPIO 4 | Y5\_GPIO\_NUM |
| D4 | GPIO 5 | Y6\_GPIO\_NUM |
| D5 | GPIO 6 | Y7\_GPIO\_NUM |
| D6 | GPIO 7 | Y8\_GPIO\_NUM |
| D7 | GPIO 17 | Y9\_GPIO\_NUM |
| XCLK | GPIO 0 | XCLK\_GPIO\_NUM |
| PCLK | GPIO 22 | PCLK\_GPIO\_NUM |
| VSYNC | GPIO 25 | VSYNC\_GPIO\_NUM |
| HREF | GPIO 23 | HREF\_GPIO\_NUM |
| SDA | GPIO 26 | SIOD\_GPIO\_NUM |
| SCL | GPIO 27 | SIOC\_GPIO\_NUM |
| POWER PIN | GPIO 32 | PWDN\_GPIO\_NUM |

So, the pin definition for the ESP32-CAM AI-Thinker on the Arduino IDE should be as follows:

#define PWDN\_GPIO\_NUM 32

#define RESET\_GPIO\_NUM -1

#define XCLK\_GPIO\_NUM 0

#define SIOD\_GPIO\_NUM 26

#define SIOC\_GPIO\_NUM 27

#define Y9\_GPIO\_NUM 35

#define Y8\_GPIO\_NUM 34

#define Y7\_GPIO\_NUM 39

#define Y6\_GPIO\_NUM 36

#define Y5\_GPIO\_NUM 21

#define Y4\_GPIO\_NUM 19

#define Y3\_GPIO\_NUM 18

#define Y2\_GPIO\_NUM 5

#define VSYNC\_GPIO\_NUM 25

#define HREF\_GPIO\_NUM 23

#define PCLK\_GPIO\_NUM 22