## **Updated Pin Mapping Table**

| Component                                | Pin Name       | Raspberry Pi GPIO<br>Pin | Physical<br>Pin |
|--|----------------|--------------------------|-----------------|
| Waveshare E-Ink Display (via Driver HAT) | VCC            | 3.3V                     | Pin 1           |
|  | GND            | Ground                   | Pin 6           |
|  | CS             | GPIO8 (CE0)              | Pin 24          |
|  | CLK            | GPIO11 (SCLK)            | Pin 23          |
|  | DIN (MOSI)     | GPIO10                   | Pin 19          |
|  | DC             | GPIO25                   | Pin 22          |
|  | RST            | GPIO17                   | Pin 11          |
|  | BUSY           | GPIO24                   | Pin 18          |
| Rotary Encoder (EC11)                    | VCC            | 3.3V                     | Pin 1           |
|  | GND            | Ground                   | Pin 9           |
|  | CLK            | GPIO5                    | Pin 29          |
|  | DT             | GPIO6                    | Pin 31          |
|  | SW<br>(Button) | GPIO27                   | Pin 13          |
| Adafruit PiOLED Display (I2C)            | VCC            | 3.3V                     | Pin 17          |
|  | GND            | Ground                   | Pin 14          |
|  | SDA            | GPIO2 (SDA1)             | Pin 3           |
|  | SCL            | GPIO3 (SCL1)             | Pin 5           |
| Geekworm X728 UPS HAT                    | VCC/GND        | Connected via HAT        | -               |
|  | I2C SDA        | GPIO2                    | Pin 3           |
|  | I2C SCL        | GPIO3                    | Pin 5           |
|  |                |                          |                 |