



Loong Socket Module LS-W1-2323-58P-32E-N8-A00



Description

The **Loong Socket** is a compact and versatile development module, built around a **58-pin socket (2.3 × 2.3 in, 2.54 mm pitch)** in **SMD & TH format**, allowing both surface-mount and through-hole integration.

This module provides a **complete ecosystem for ESP32 development**, combining digital expansion, precise analog conversion, standard debugging interfaces, stable power outputs, and accessible connectors



Feature List

58 x pin socket SMD & TH (2.3 × 2.3 in, 2.54 mm pitch).

1× ESP32-WROOM-32E (8 MB, PCB antenna).

1× SPI I/O expander 16 GPIOs (MCP23S17T-E/SS).

8 x Channel, 12-bit ADC via SPI. Voltage reference 2.048V and 0V to 3.3V input (MCP3208T-CI/SL).

1× USB Type-C connector UART1 (power + data).

1× 5 V input (via USB-C or header).

1× 3.3 V output (regulated).

13× GPIO breakout from ESP32.

1× Tactile switch.

1× Addressable RGB LED (WS2812/Neopixel).

1× Programmer connector.

1× JTAG connector.

1× TTL UART2 header (3.3 V).

1× 5V output for addressable LED.

1× I²C interface (3.3 V logic).