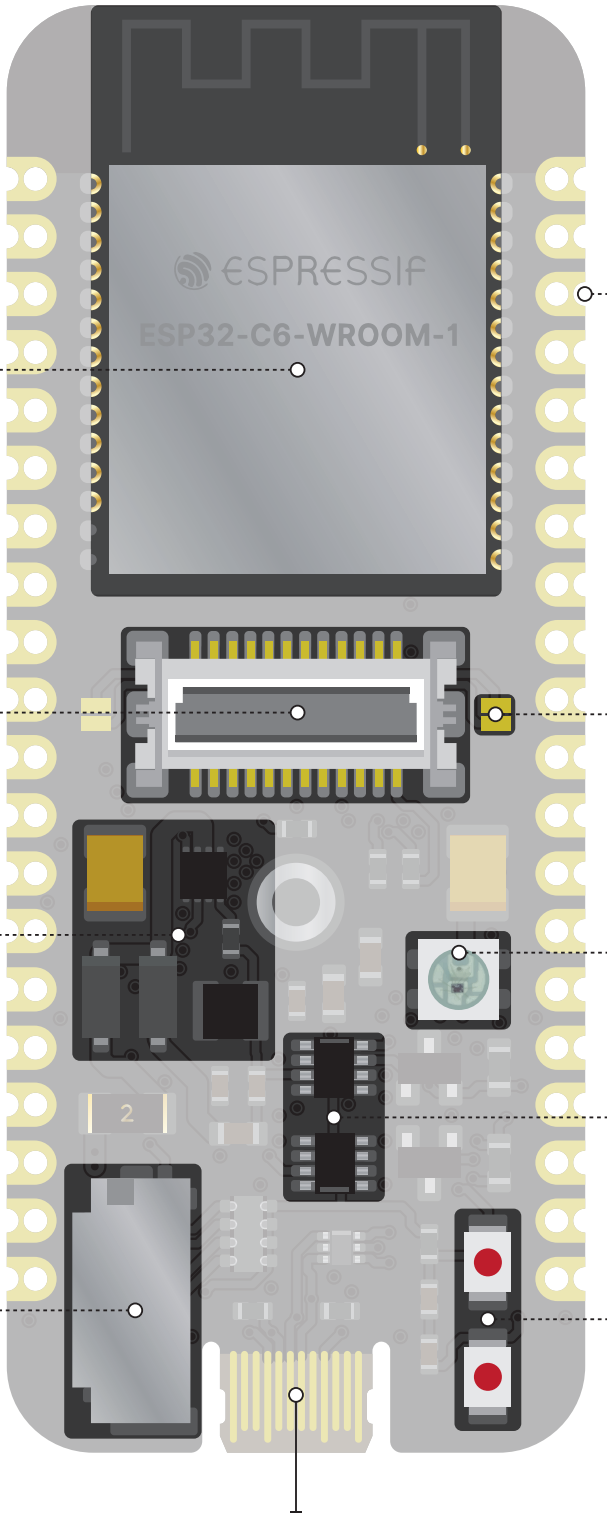
CAN32 Dual CAN-Bus Development Board

Overview



Microprocessor / WiFi & Bluetooth module
Espressif ESP32-C6-WROOM-1
32-bit RISC-V single-core microprocessor, up to 160 MHz
320 KB ROM
512 KB SRAM
16 KB Low-power (LP) SRAM
Operating frequency: 2412 ~ 2484 MHz
IEEE 802.11ax-compliant
Compatible with IEEE 802.11b/g/n
Bluetooth 5 LE
Compliant with IEEE 802.15.4-2015 protocol
8 MB external SPI flash

Expansion port
Offers power rails, USB, CAN-Bus, and multiple GPIO pins for I²C, Serial, and other functions

Sychronous step-down DC-DC converter
Qualified for automotive applications
Input up to 14.5V, 3.3V output
Typically 17µA quiescent current

microSD card slot
Connected via SPI
With detect switch

Castellated pads
Allow for easy integration into custom PCB designs
All ESP32 pins, USB, CAN-Bus, and power broken out

120Ω resistor jumpers
Can optionally be enabled based on implementation

Addressable RGB LED

Dual CAN-Bus transceivers
High-Speed Operation Up to 1Mbps
Four Operating Modes
Robust ESD Protection
8µA supply current in Standby mode

Boot and Reset switches

Integrated USB Type-C port

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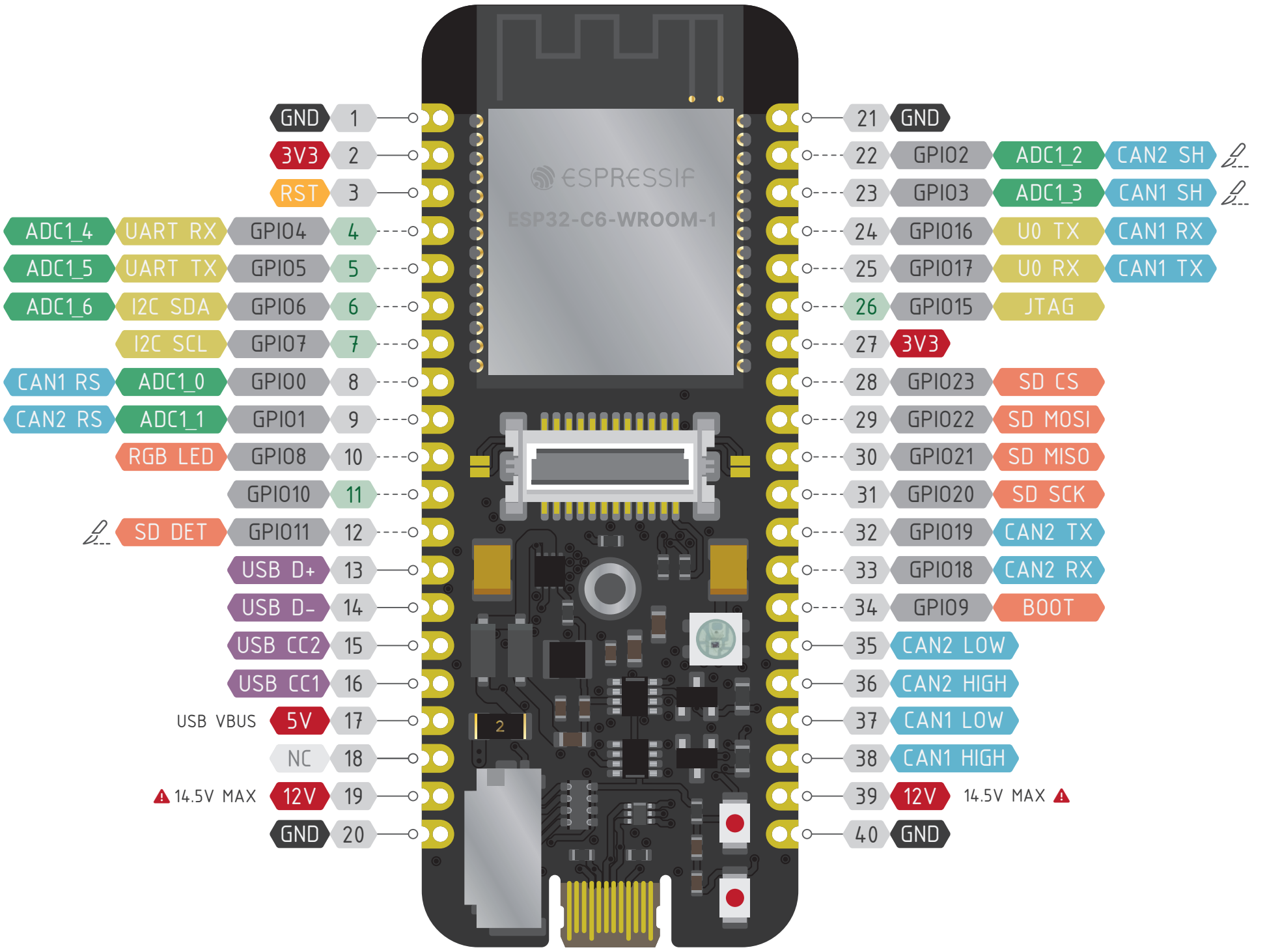
Pinout



Physical pin number · Unused by peripherals · Peripheral tied to GPIO · CAN Bus functions

USB Type-C pins · Power pins · Function can physically be disabled