



EASY EDGE

IoT Sensor to Cloud

From sensors to AI in a single step



HIGHLIGHTS



CPU
ESP32-D0WD-V3 processor



NETWORKING
WiFi 802.11b/g/n + BT 4.2, optional Modem with GNSS functionality



CONNECTIVITY
Programmable expansion connector, CAN Port, dedicated RS-232 / TTL UART



MEMORY
Internal 520KB SRAM + 16KB SRAM in RTC



MAIN FIELDS OF APPLICATION

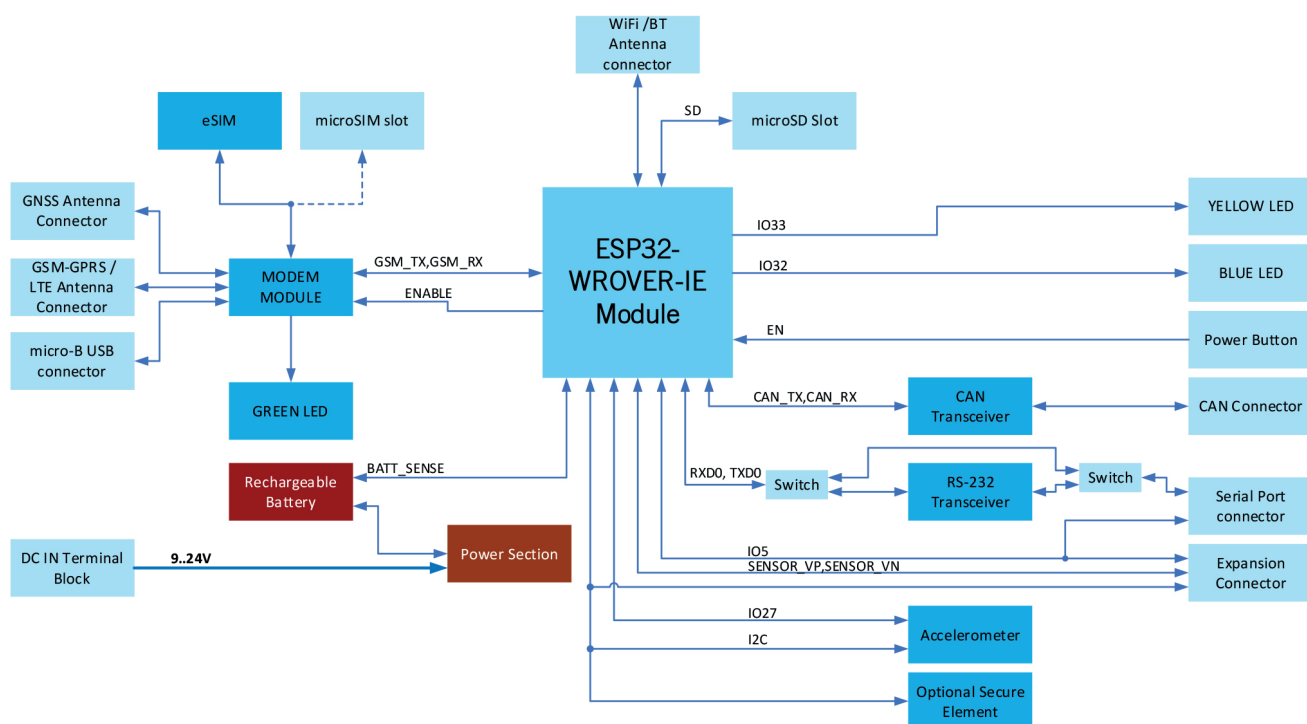


Coffee &
Vending

FEATURES

| | | | | | |
|--|------------------|---|--|------------------------|---|
| | Processor | ESP32-D0WD-V3 Dual Core Xtensa® 32-bit LX6 Microprocessor | | Power Supply | 2-pin micro-Fit Connector +9V _{DC} .. +24V _{DC} Optional 2000mAh rechargeable battery, LIR18650 |
| | Memory | Internal 520KB SRAM + 16KB SRAM in RTC | | Operating Temperature* | 0°+45°C |
| | Graphics | N.A. | | Dimensions | 110 x 91 x31 mm (LxWxD) |
| | Mass Storage | 16MB SPI Flash 8MB PSRAM microSD slot | | Mechanical | Wall mount and DIN rail mount |
| | Networking | Embedded WiFi (802.11 b/g/n) + BT 4.2/BT LE module Optional Modem with GNSS functionality: - Quad Band GSM/GPRS Modem, SIMCOM SIM868 - Global-Band LTE CAT-M/NB-IoT modem, SIMCOM SIM7080G | *Measured inside the case, during any and all times (including start-up). Actual temperature will widely depend on application and/or environment. | | |
| | Serial Ports | RS-232 / TTL UART (jumper selectable) port on 6-pin dedicated connector | | | |
| | CAN | CAN Port on 3-pin dedicated connector | | | |
| | Other Interfaces | Accelerometer Optional Trusted Secure Element Expansion 8-pin connector, able to manage: - Up to 3x Digital GPIOs, 2 of them managed also in UltraLow Power States too - Up to 2x analog Inputs - I2C interface (fixed interface) - Additional 2-Wire UART - Second I2C interface - Up to 2x PWM 1x Pushbutton White LED for Power On Signaling Green LED for Modem Activity Signaling Blue LED for Edgehog network connection signaling Yellow LED for WiFi/BT activity or other signaling eSIM or microSIM slot (factory options) SMA connectors for WiFi/BT, Modem and GNSS (antennas not provided) | | | |

BLOCK DIAGRAM



Streamline and expedite your edge computing implementations

EDGEHOG OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust AI-based protection.

DATA ORCHESTRATION

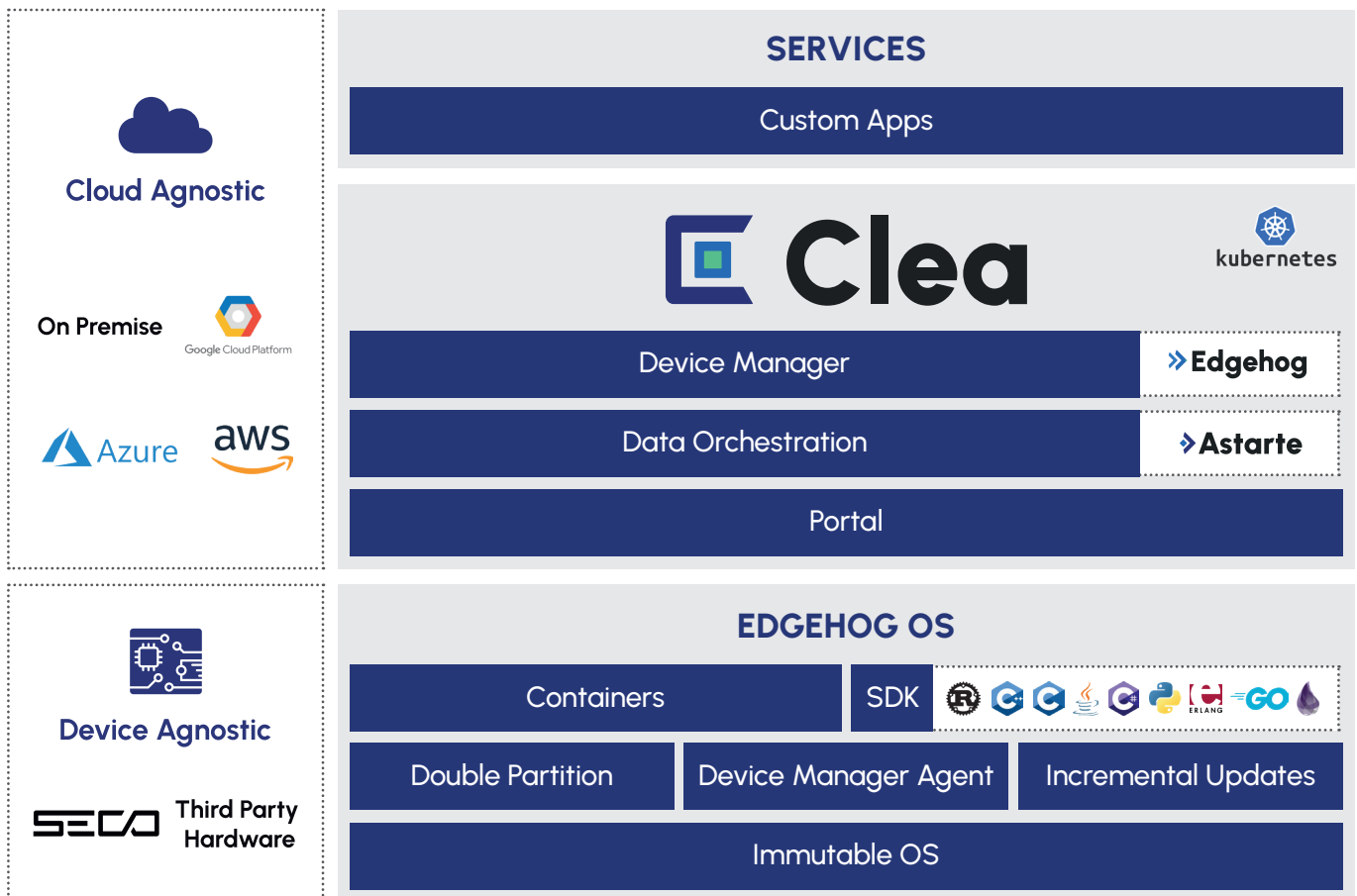
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

DEVICE MANAGER

Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.



Scan to know more about our solution

EDGEHOG OS



CLEA DOCS

