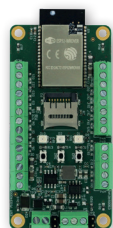




SENSE-ESP32

IoT Sensor to Cloud with ESP32-D0WDQ6 Processor

From sensors to Cloud in a single step



HIGHLIGHTS


CPU
ESP32-D0WD processor


CONNECTIVITY

Programmable expansion connectors, with up to 15 GPIOs multiplexed with other communication interfaces


NETWORKING
WiFi 802.11b/g/n + BT 4.2


MEMORY

Internal 520KB SRAM + 16KB SRAM in RTC

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION


 Coffee &
Vending


Transportation

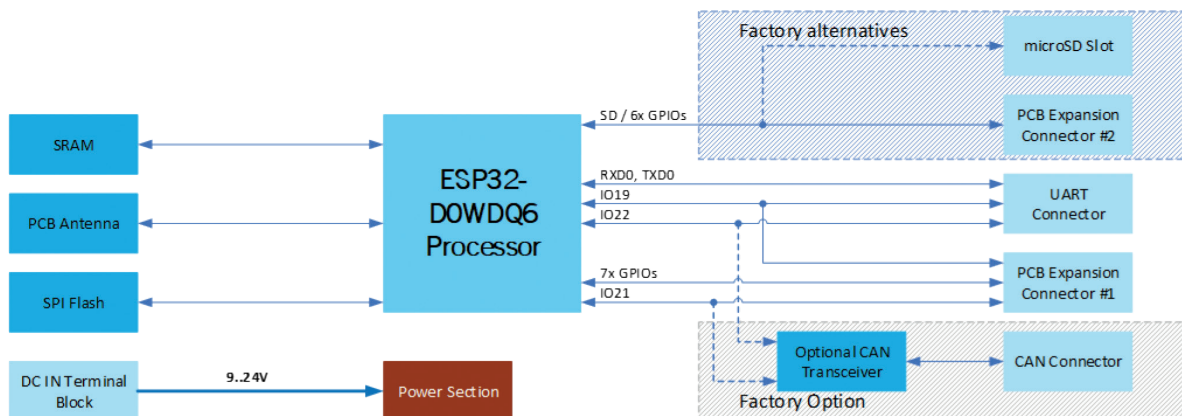

 Industrial
Automation


Smart Devices

FEATURES

	Processor	ESP32-D0WDQ6 processor, Dual Core Xtensa® 32-bit LX6 Microprocessor		
	Memory	Internal 520KB SRAM + 16KB SRAM in RTC		
	Graphics	N.A.		
	Mass Storage	4MB SPI Flash 8MB PSRAM Optional microSD slot (alternative to Expansion PCB-terminal block #2)		
	Networking	Embedded WiFi (802.11 b/g/n) + BT 4.2/BT LE module with PCB antenna		
	Serial Ports	Optional 4-wire TTL port on 5-pin dedicated PCB Terminal Block		
	CAN	Optional CAN Port on 3-pin dedicated PCB Terminal Block		
				Other Interfaces Expansion 10-/11-pin PCB terminal block #1, able to manage: Up to 9 digital GPIOs (5 managed in UltraLow Power States too) Up to 5x analog Inputs Up to 2x DAC outputs SPI interface Expansion 8-pin PCB terminal block #2 (alternative to microSD Slot), able to manage: Up to 6x digital GPIOs, all managed in UltraLow Power States too Up to 6x analog Inputs Up to 6x Capacitive Sensing GPIOs SPI JTAG interface SD Host interface SD Slave interface 3x Pushbuttons Green LED for Power On Signaling Blue LED for Edgehog network connection signaling Yellow LED for WiFi/BT activity or other signaling
		Power Supply		PCB Terminal Block +9V _{DC} ... +24V _{DC}
		Operating Temperature		-40°+85°C (Industrial Temperature range)
		Dimensions		4x8 cm

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

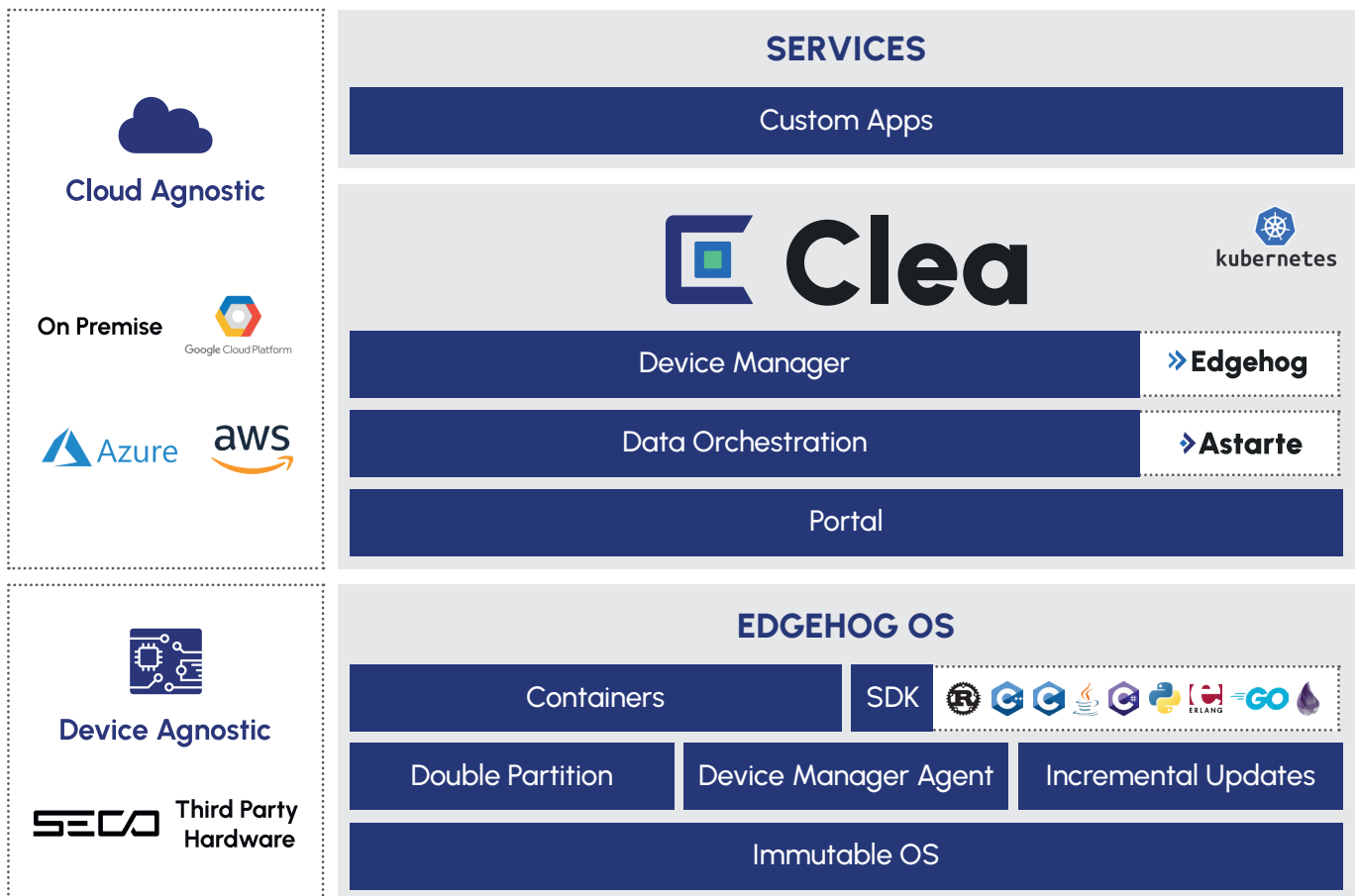
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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

