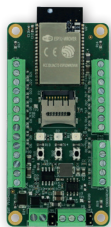


# Smart Edge Computing



## SENSE-D01 IoT Sensor to Cloud with ESP32-D0WD 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



Industrial  
Internet of  
Things

### FEATURES

Processor	ESP32-D0WDQ6 processor, Dual Core Xtensa® 32-bit LX6 Microprocessor	Power Supply	PCB Terminal Block +9V <sub>DC</sub> .. +24V <sub>DC</sub>
Memory	Internal 520KB SRAM + 16KB SRAM in RTC	Operating Temperature	-40°÷+85°C (Industrial Temperature range)
Graphics	N.A.	Dimensions	4x8 cm
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		



# SENSE-D01

## IoT Sensor to Cloud with ESP32-D0WD processor

### BLOCK DIAGRAM

