SenseCAP Indicator + D1S (Alpha), 4-Inch Touch Screen IoT development platform powered by ESP32S3 & RP2040



Features

- **Dual MCUs and Rich GPIOs:** Equipped with powerful ESP32S3 and RP2040 dual MCUs and over 400 Grove-compatible GPIOs for flexible expansion options.
- **Real-time Air Quality Monitoring:** Built-in tVOC and CO2 sensors, and an external Grove AHT20 temperature and humidity sensor for more precise
- Local LoRa® Hub for IoT Connectivity: Integrated Semtech SX1262 LoRa® chip (optional) for connecting LoRa® devices to popular IoT platforms such as Matter via Wi-Fi, without the need for additional compatible devices.
- Fully Open Source Platform: Leverage the extensive ESP32 and Raspberry Pi open-source ecosystem for infinite application possibilities.
- Fusion ODM Service Available: Seeed Studio also provides one-stop ODM service for quick customization and scale-up to meet various needs.



Public Area Air Monitor







Asset Monitor

Grove Sensor Hub



ChatGPT Indicator



SOP Reminder





On-site Alarm

Digital Album

Specification

Screen	3.95 Inch, Capacitive RGB Touch Screen	
Screen Resolution	480 x 480 pixels	
Power Supply	5V DC, 1A	
Battery	N/A	
Processor	ESP32-S3: Xtensa® dual-core 32-bit LX7 microprocessor, up to 240MHz	
	RP2040: Dual ARM Cortex	-M0+ up to 133MHz
Flash	ESP32S3: 8MB	
	RP2040: 2MB	
External Storage	Support up to 32GB Micro SD Card (not included)	
Wi-Fi	802.11b/g/n, 2.4GHz	
Bluetooth	Bluetooth 5.0 LE	
LoRa®(SX1262)	LoRa®WAN/(G)FSK, 21dBm Max Transmitted Power Sensitivity/-136dBm@SF12 BW=125KHz RX Sensitivity, Up to 5km (depending on gateway antenna and environments)	
Sensors(Optional)	Built-in CO2 (SCD41)	Range: 0-40000ppm
		Accuracy: 400ppm - 5000ppm ±(50ppm+5% of reading)
	Built-in TVOC (SGP40)	Range: 1-500 VOC Index Points

Buzzer MLT-8530, Resonant Frequency : 2700Hz

Part List

SenseCAP Indicator	
USB Type-C Cable (1m)	x1
Grove AHT20 TH Sensor (For D1S and D1Pro version)	x1

ECCN/HTS

HSCODE		9027100090
USHSCO	DE	9027102000
UPC		
EUHSCODE		9027109000
COO		CHINA
CE	1	
EU DoC	1	
FCC	1	
RoHS	1	
TELEC	1	
UK DoC	1	